

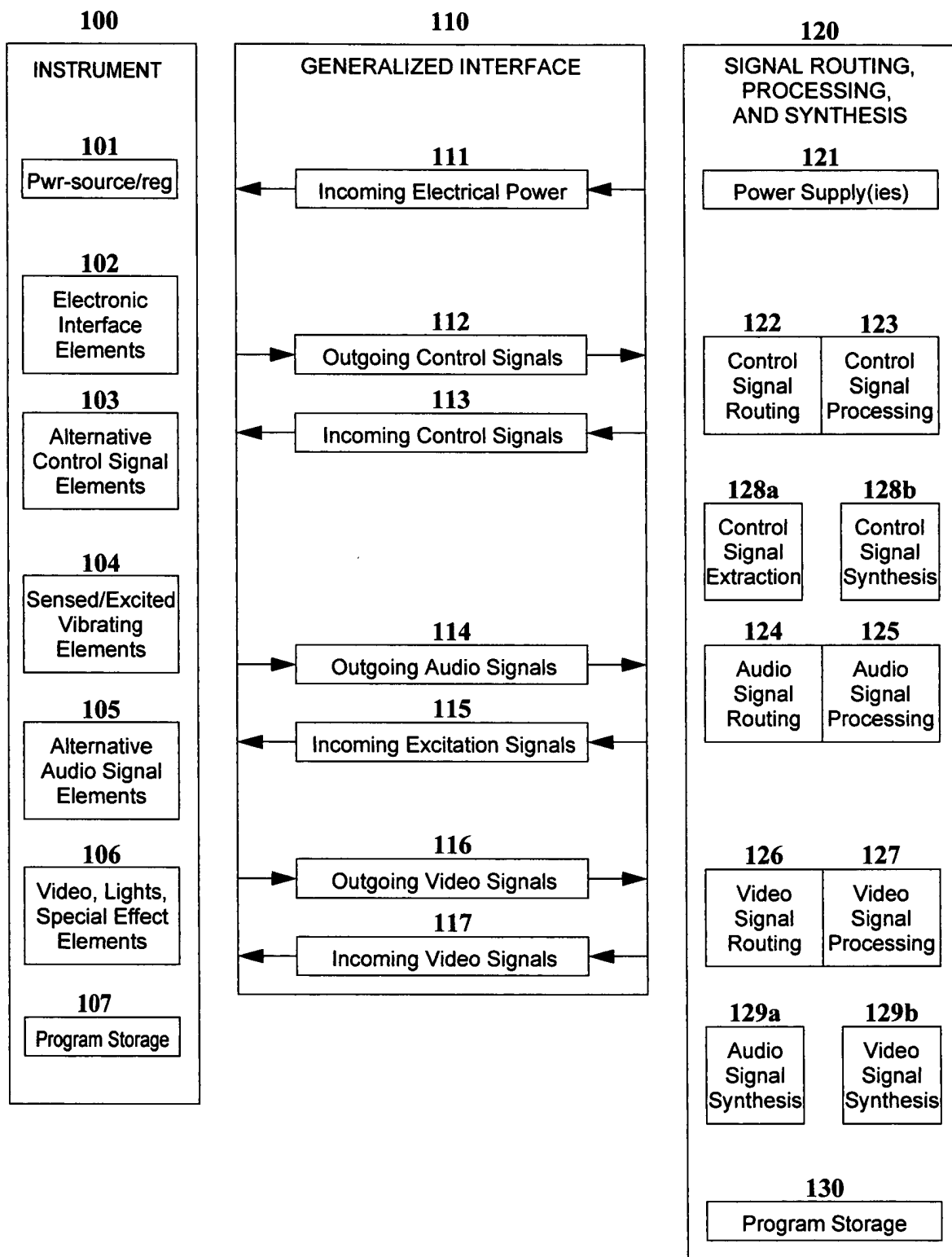
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 1

1 / 72



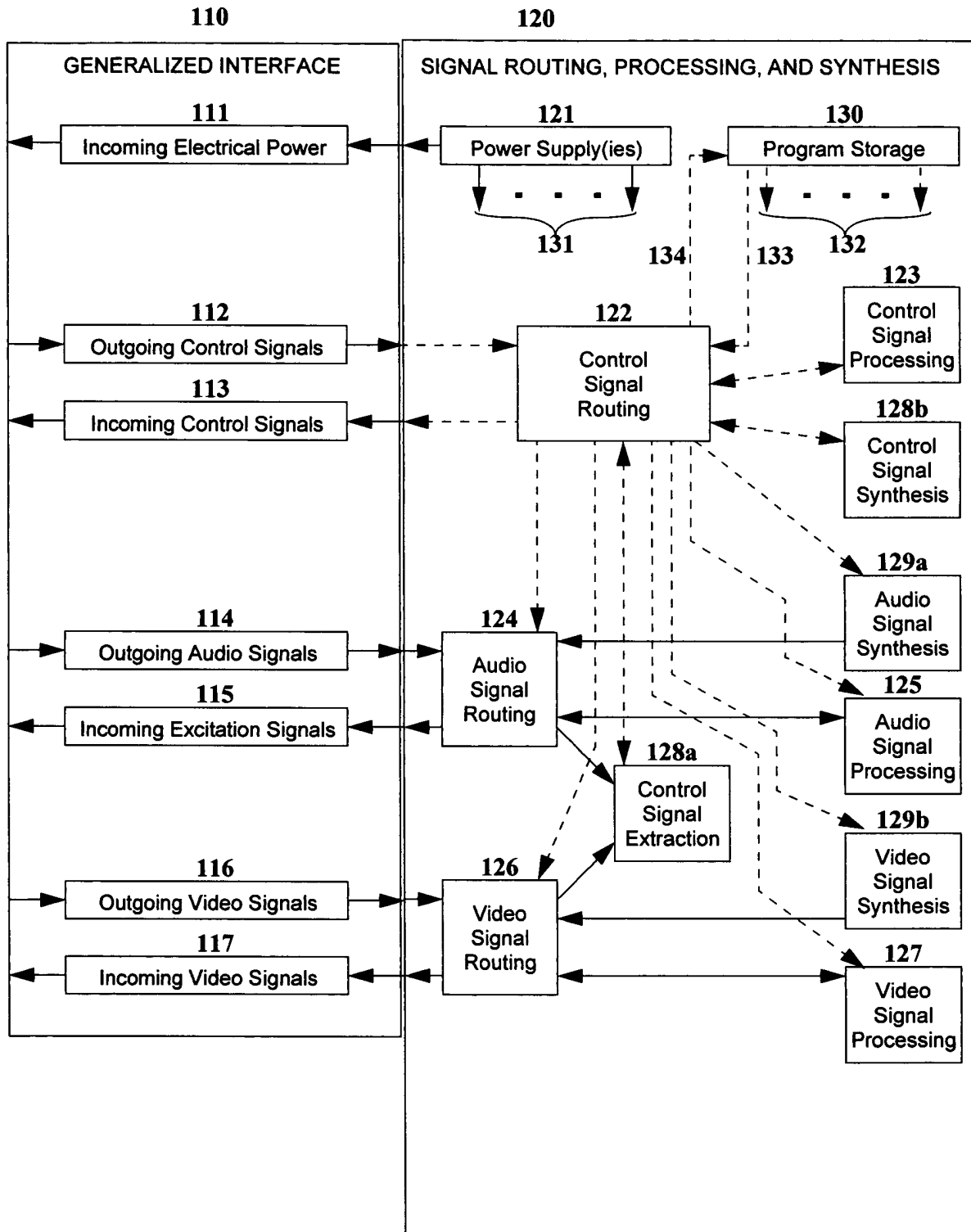
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

2 / 72

Figure 2



**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

3 / 72

Figure 3A

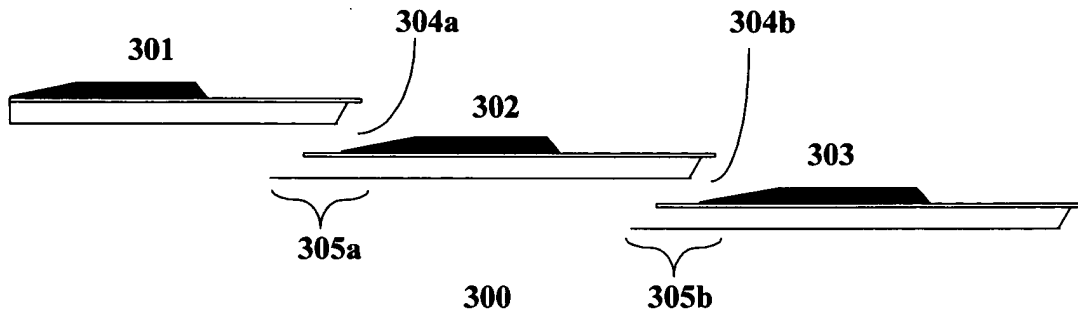


Figure 3B

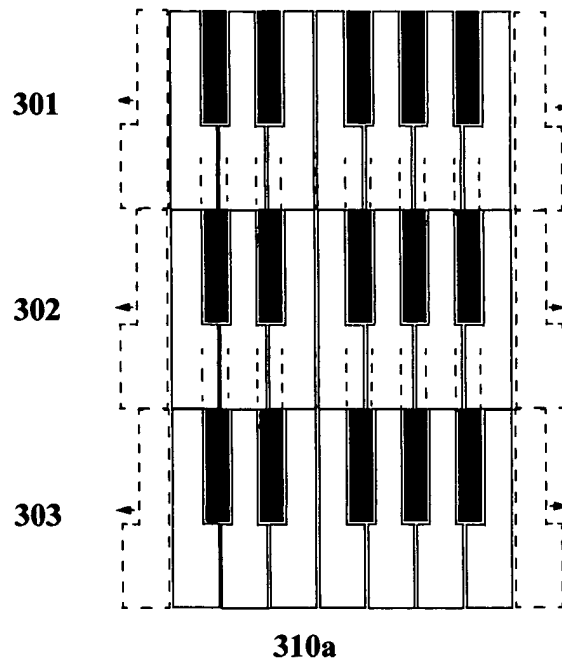
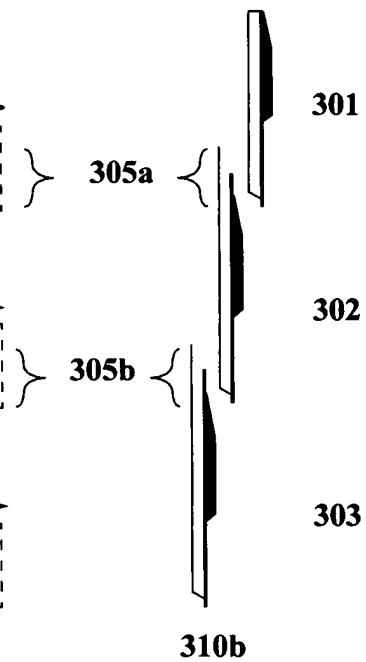


Figure 3C

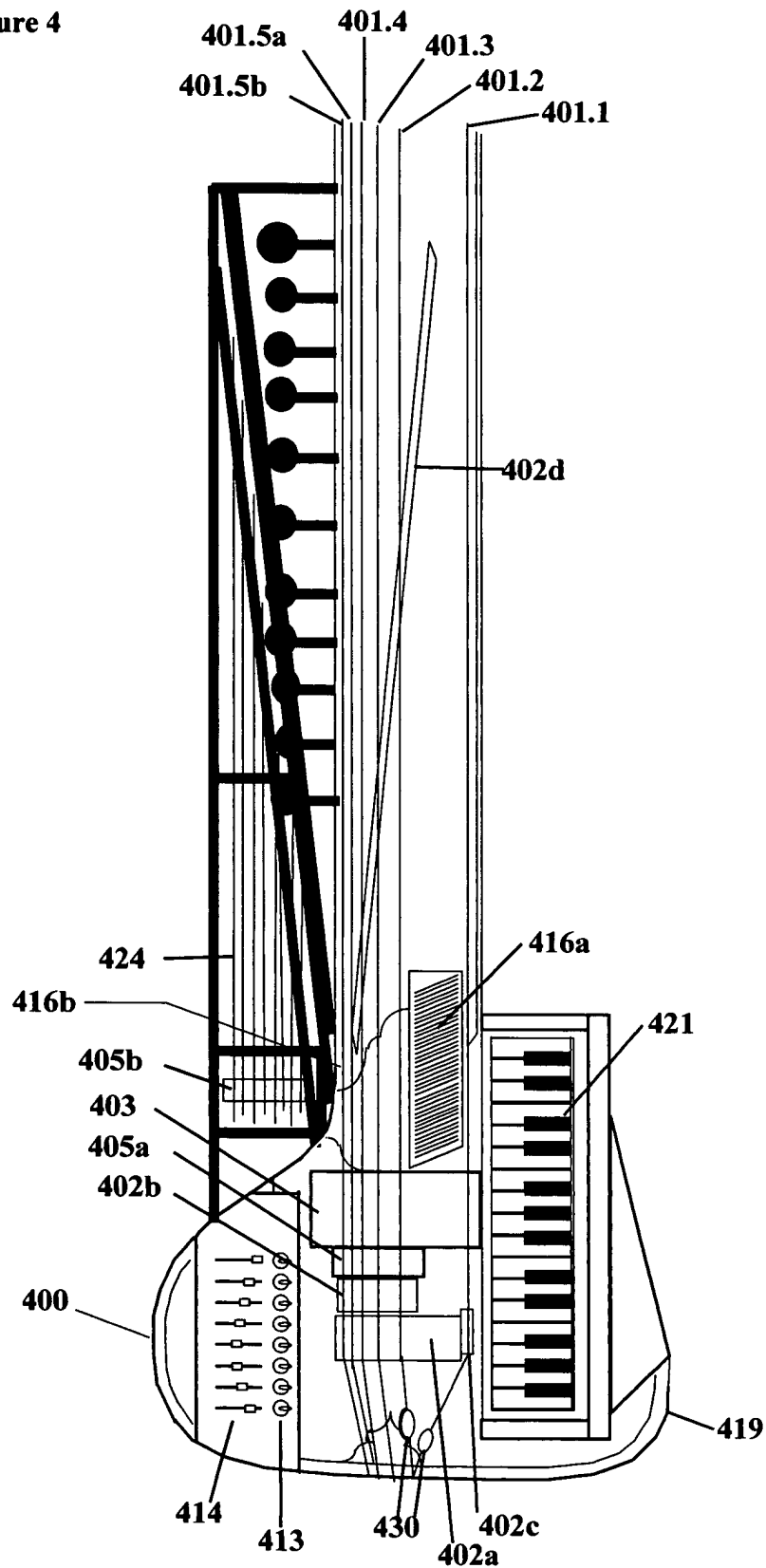


STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

4 / 72

Figure 4

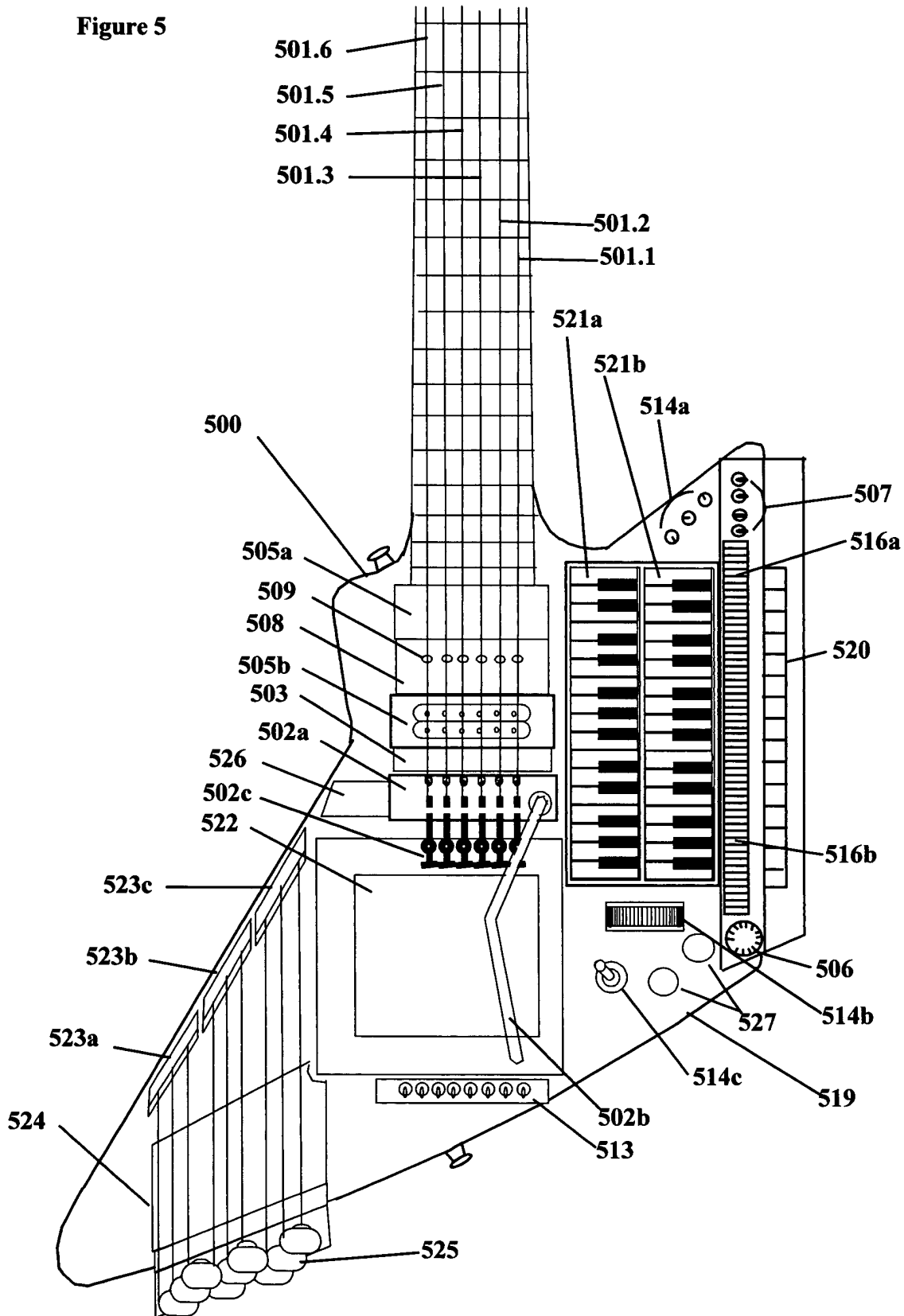


STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

5 / 72

Figure 5



**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

6 / 72

Figure 6A

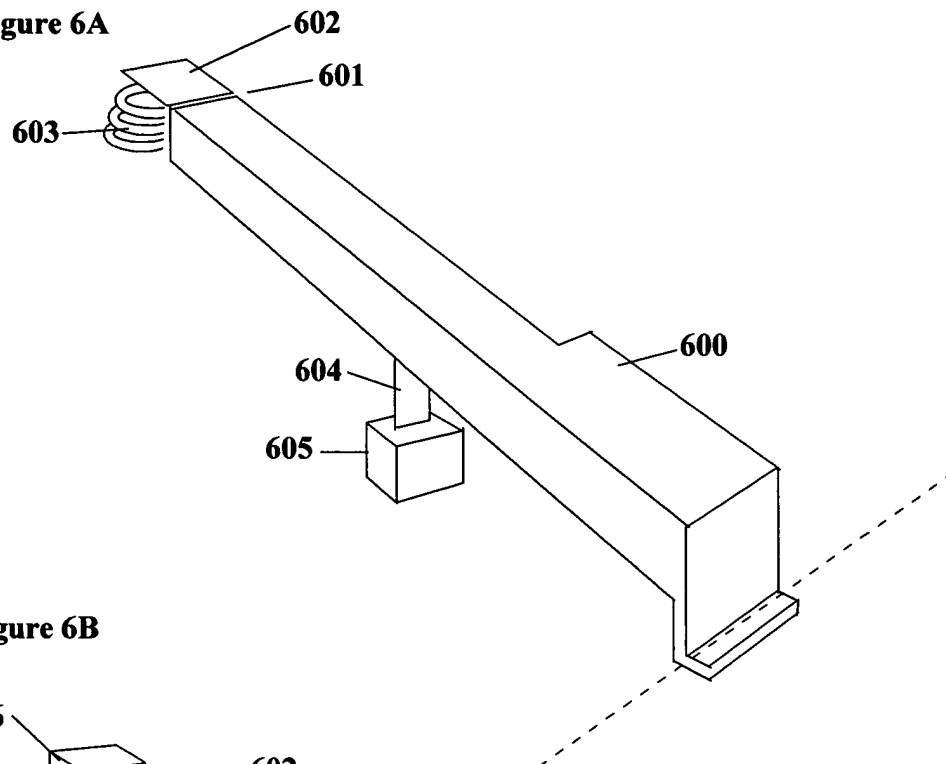
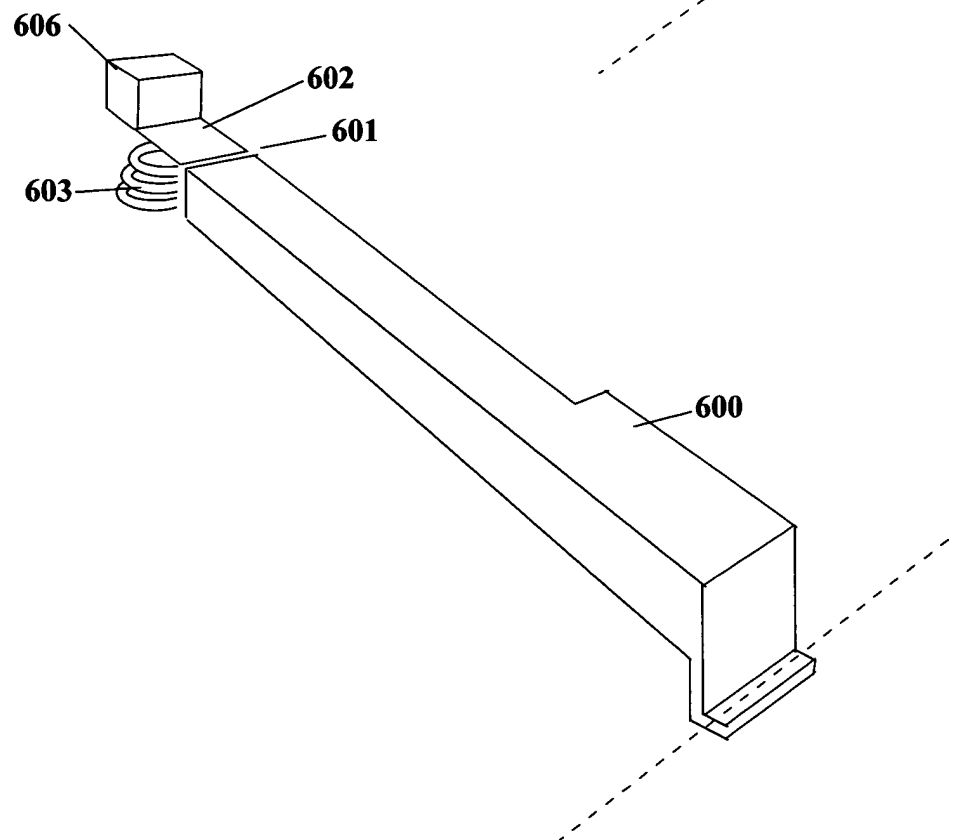


Figure 6B



**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

7 / 72

Figure 7A

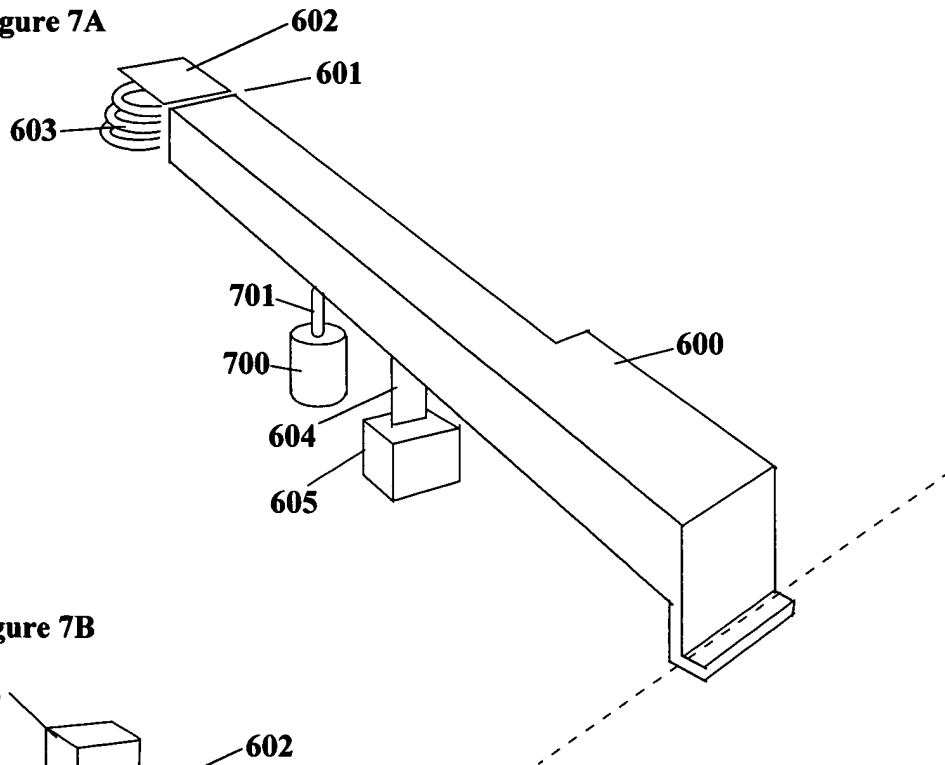
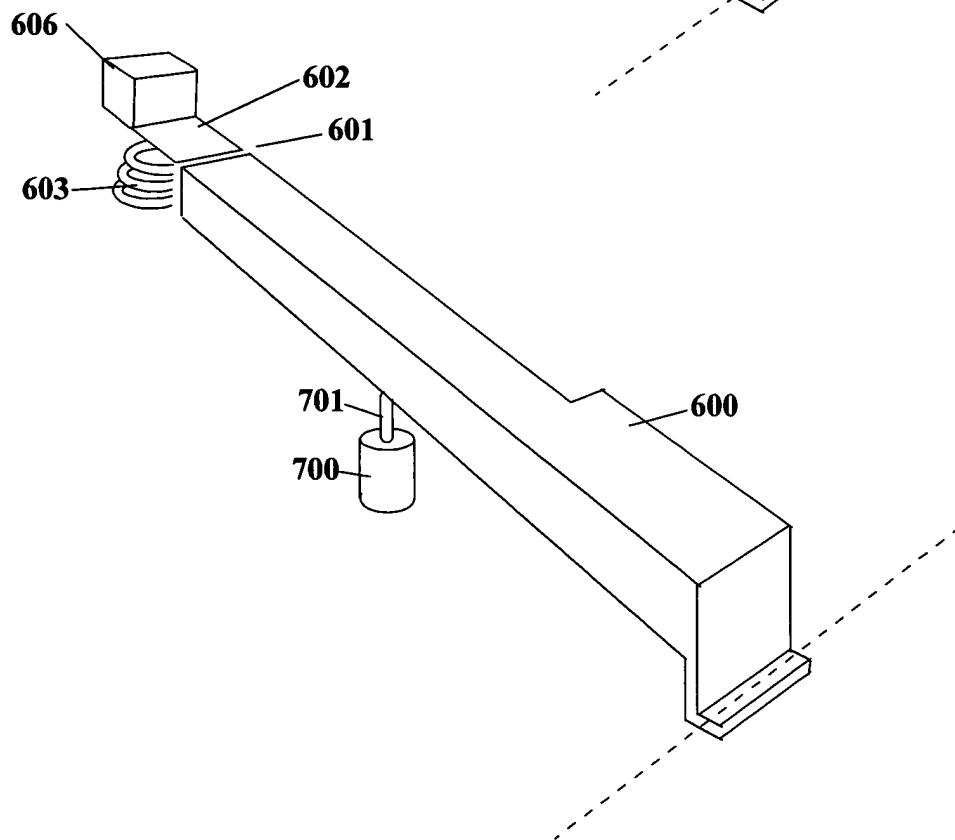


Figure 7B



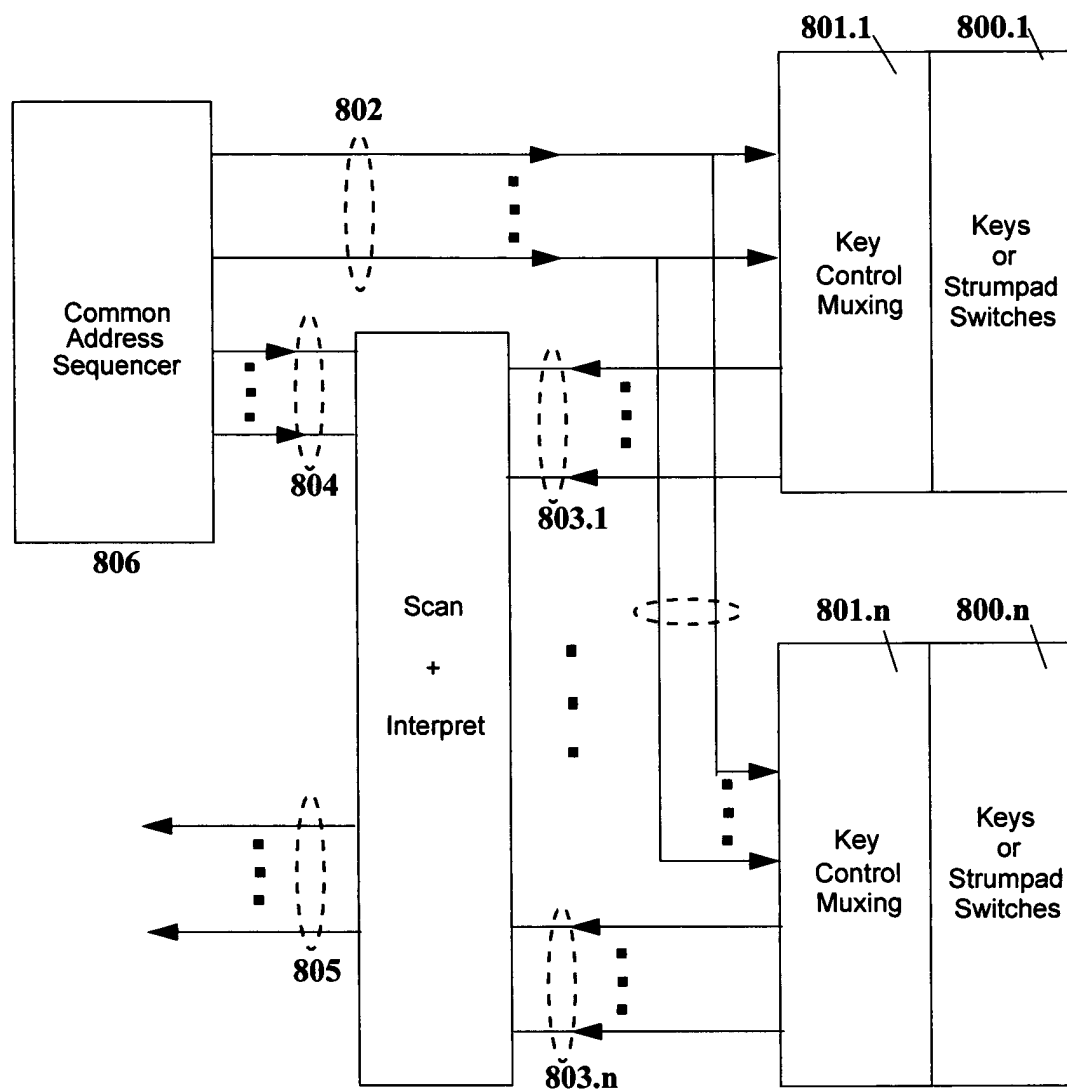
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

8 / 72

Figure 8



**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 9

9 / 72

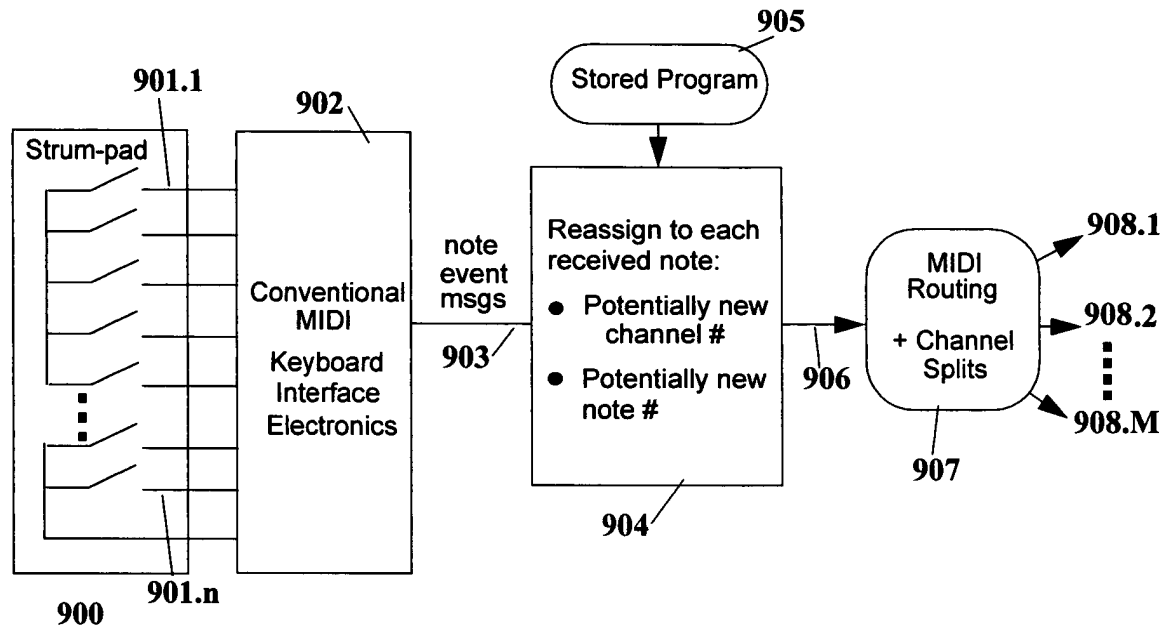
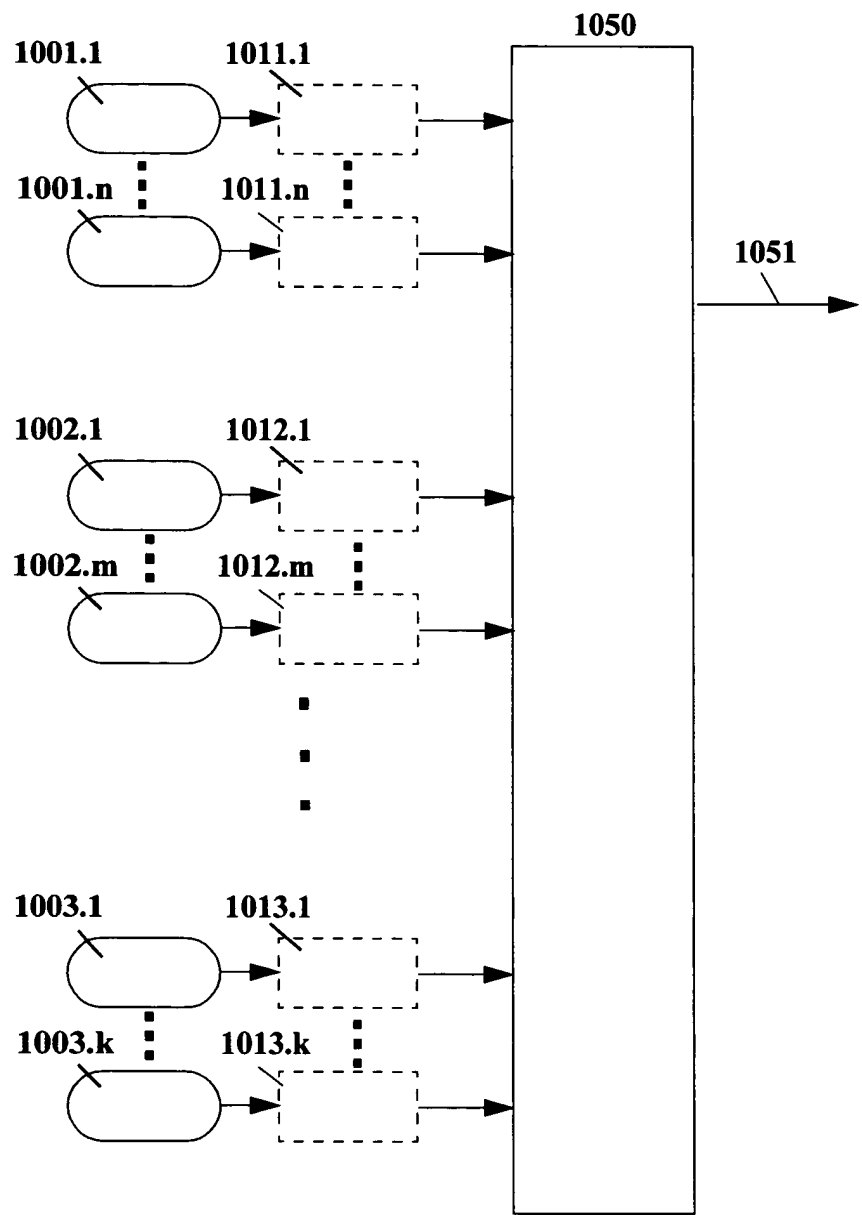


Figure 10

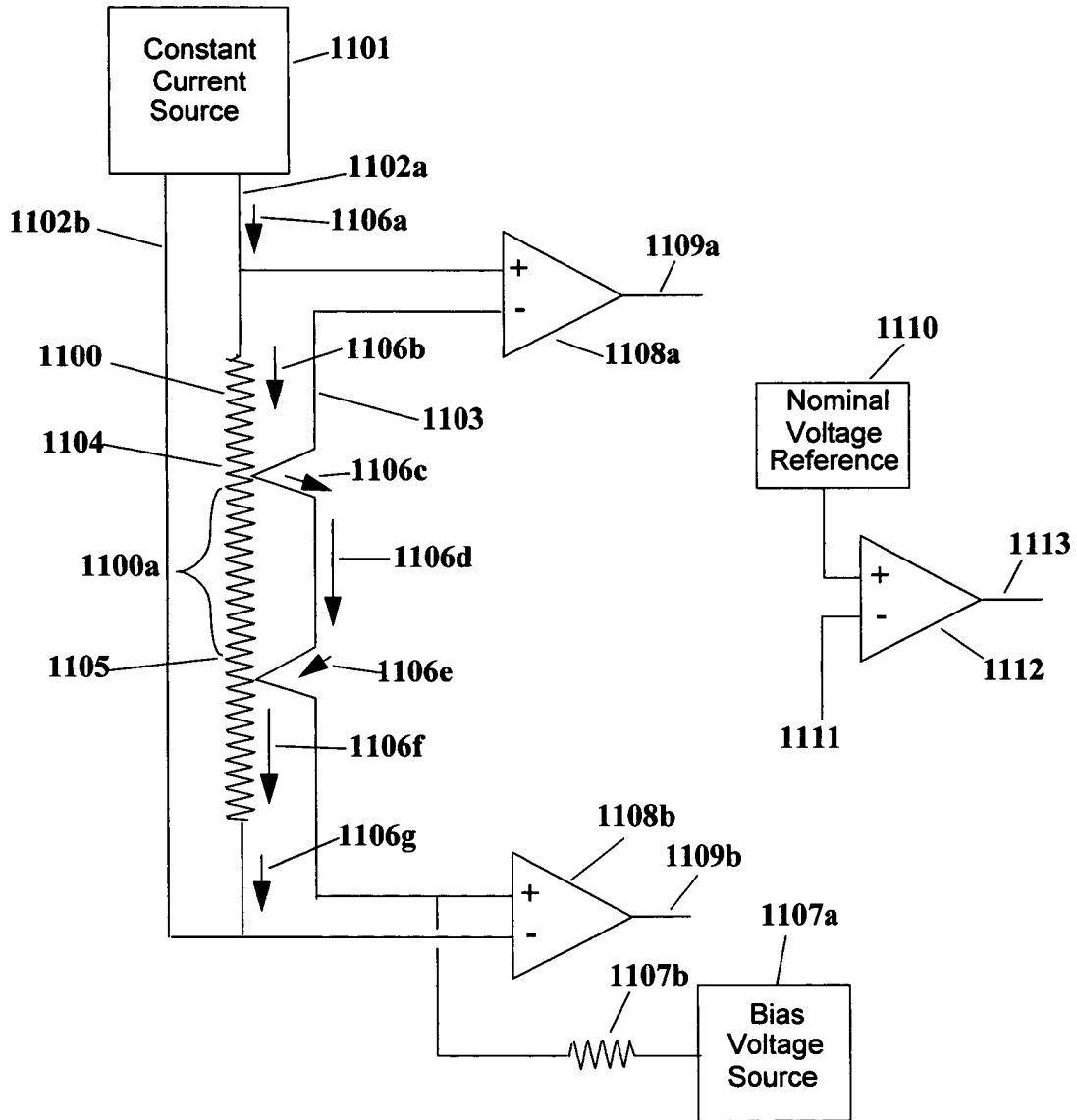


STRUMPAD AND STRING ARRAY PROCESSING FOR MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 11

11 / 72

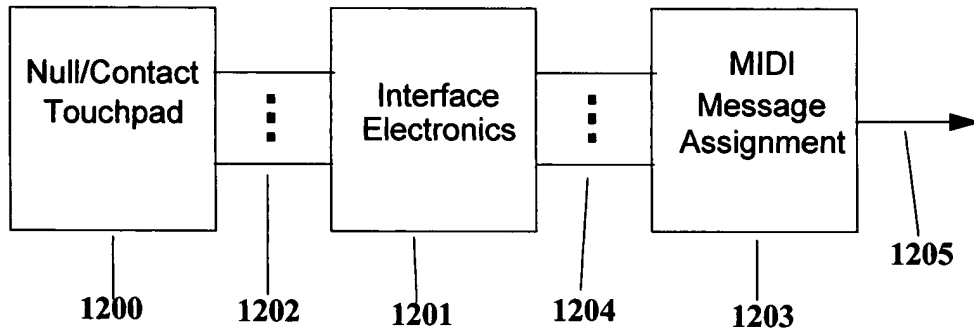


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

12 / 72

Figure 12

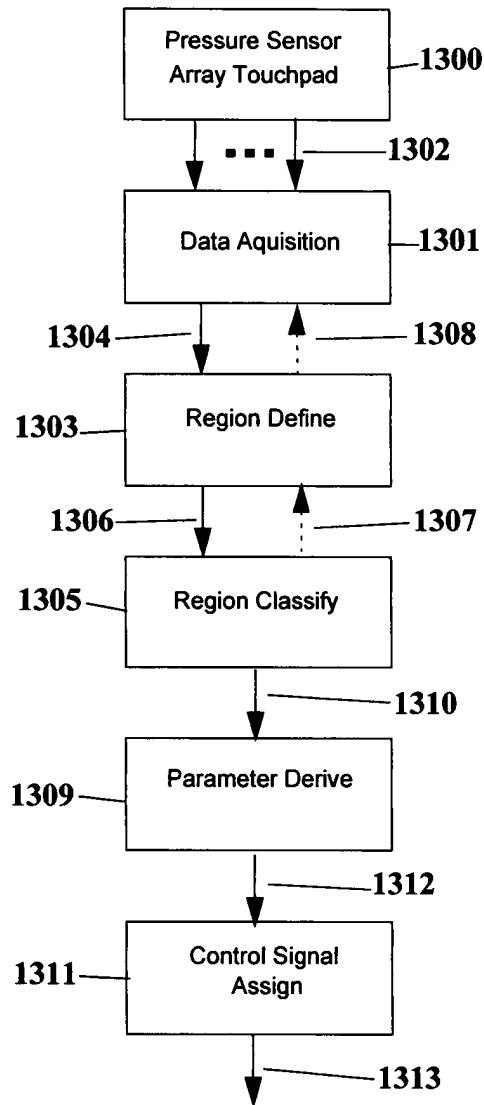


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 13

13 / 72



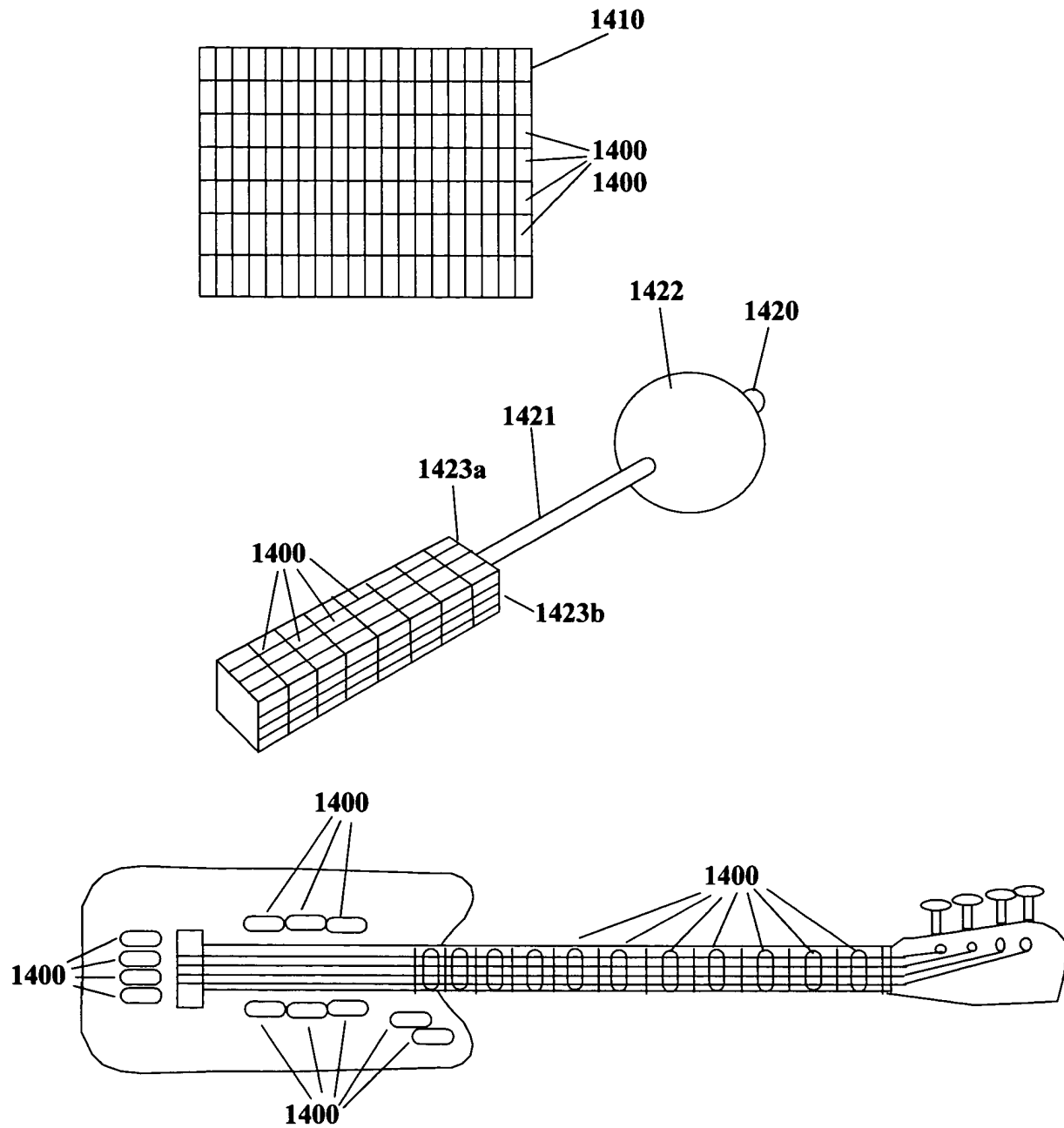
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

14 / 72

Figure 14



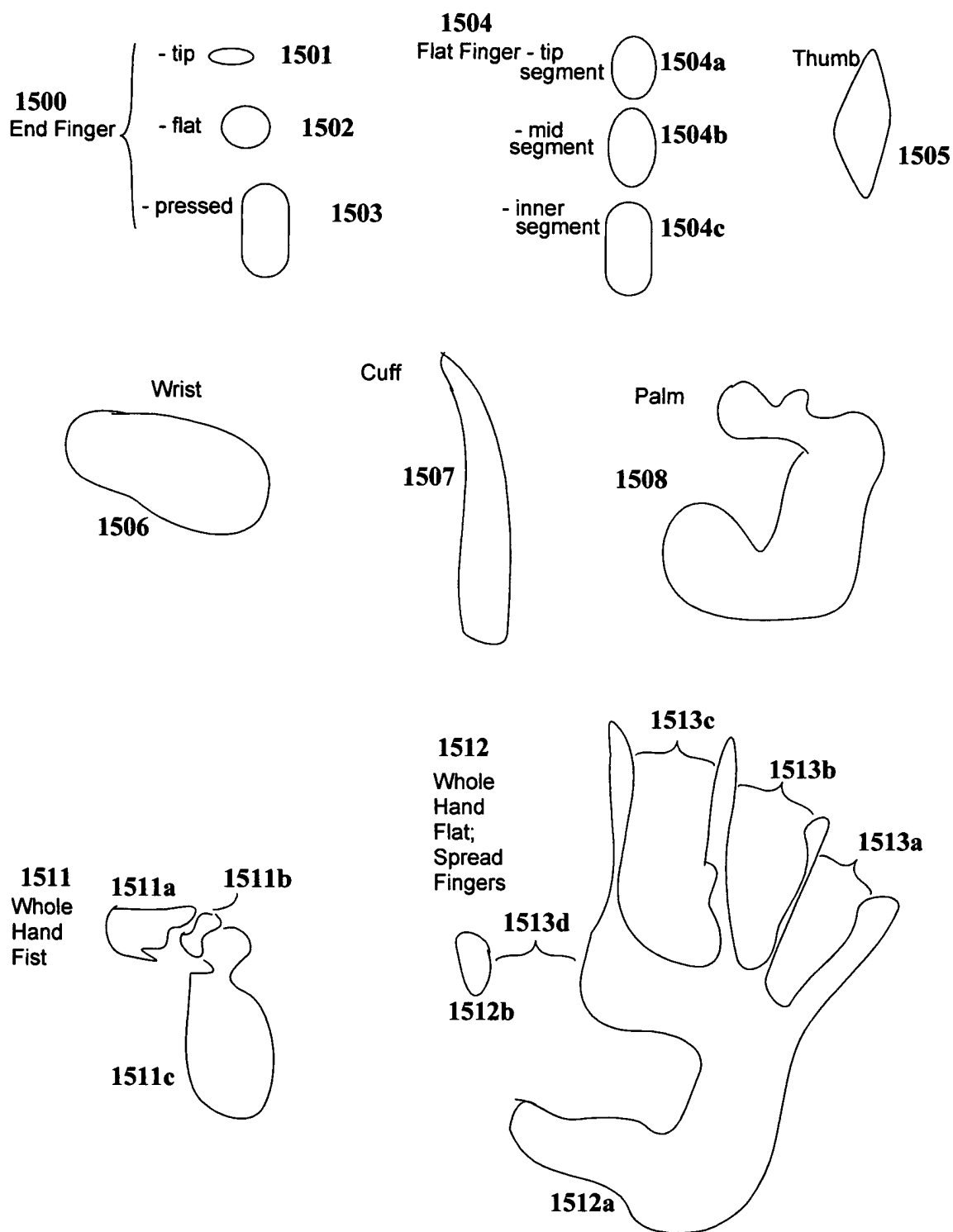
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

15 / 72

Figure 15

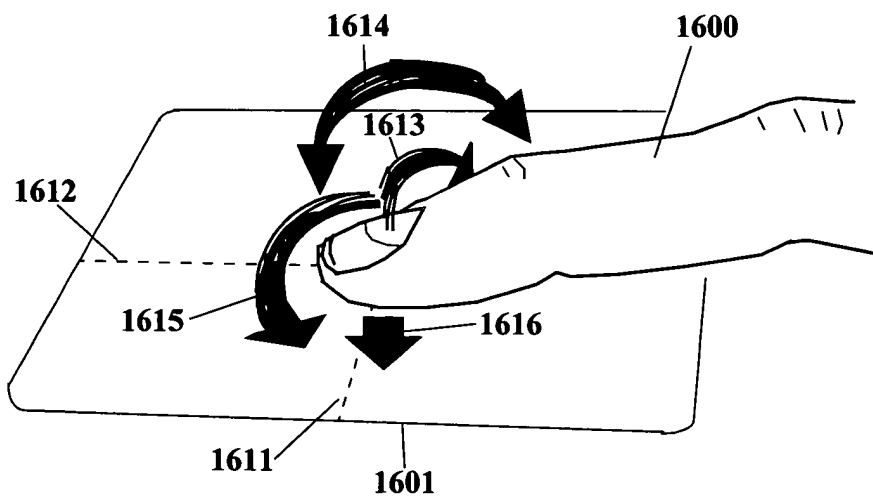


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

16 / 72

Figure 16



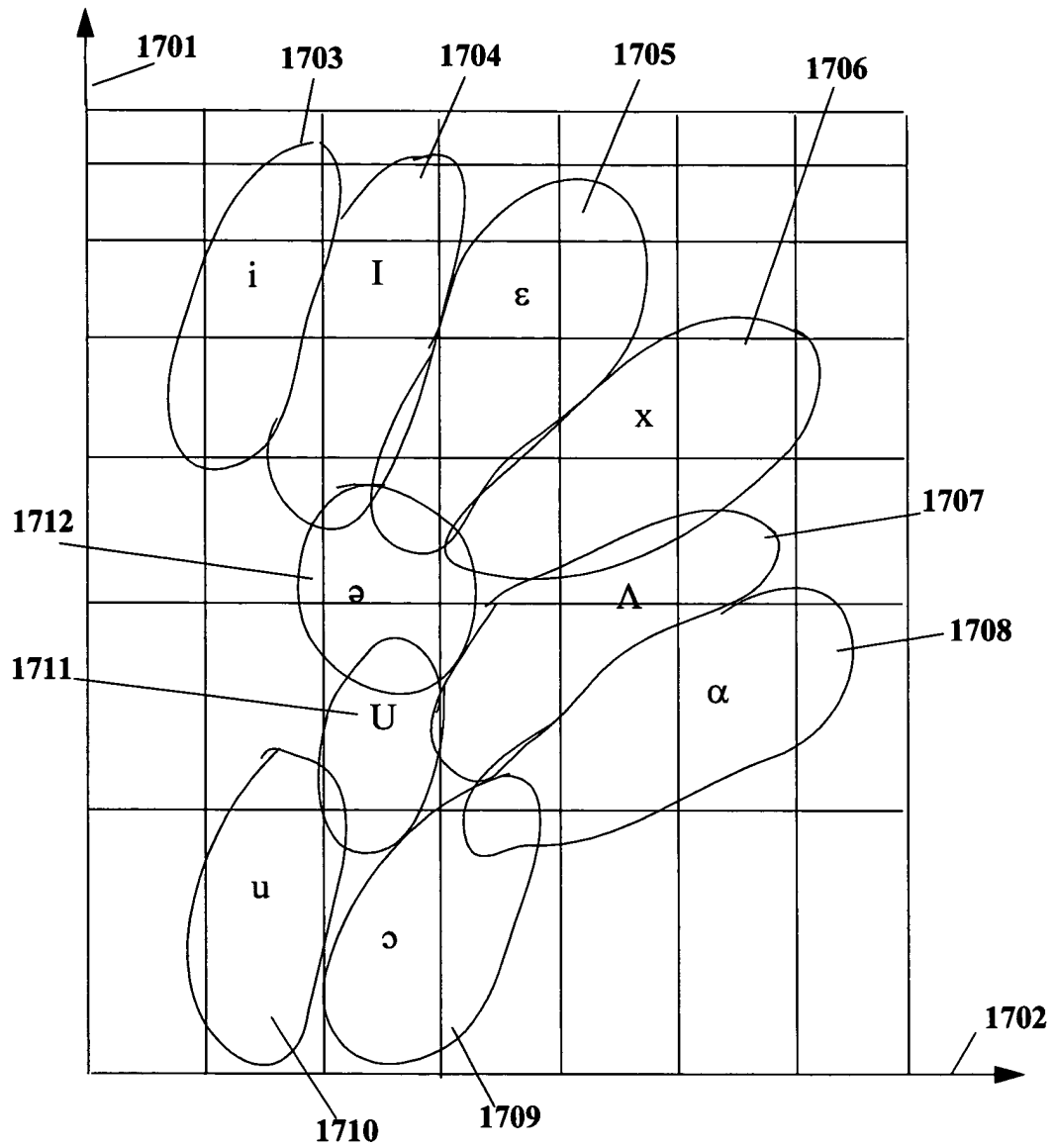
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

17 / 72

Figure 17

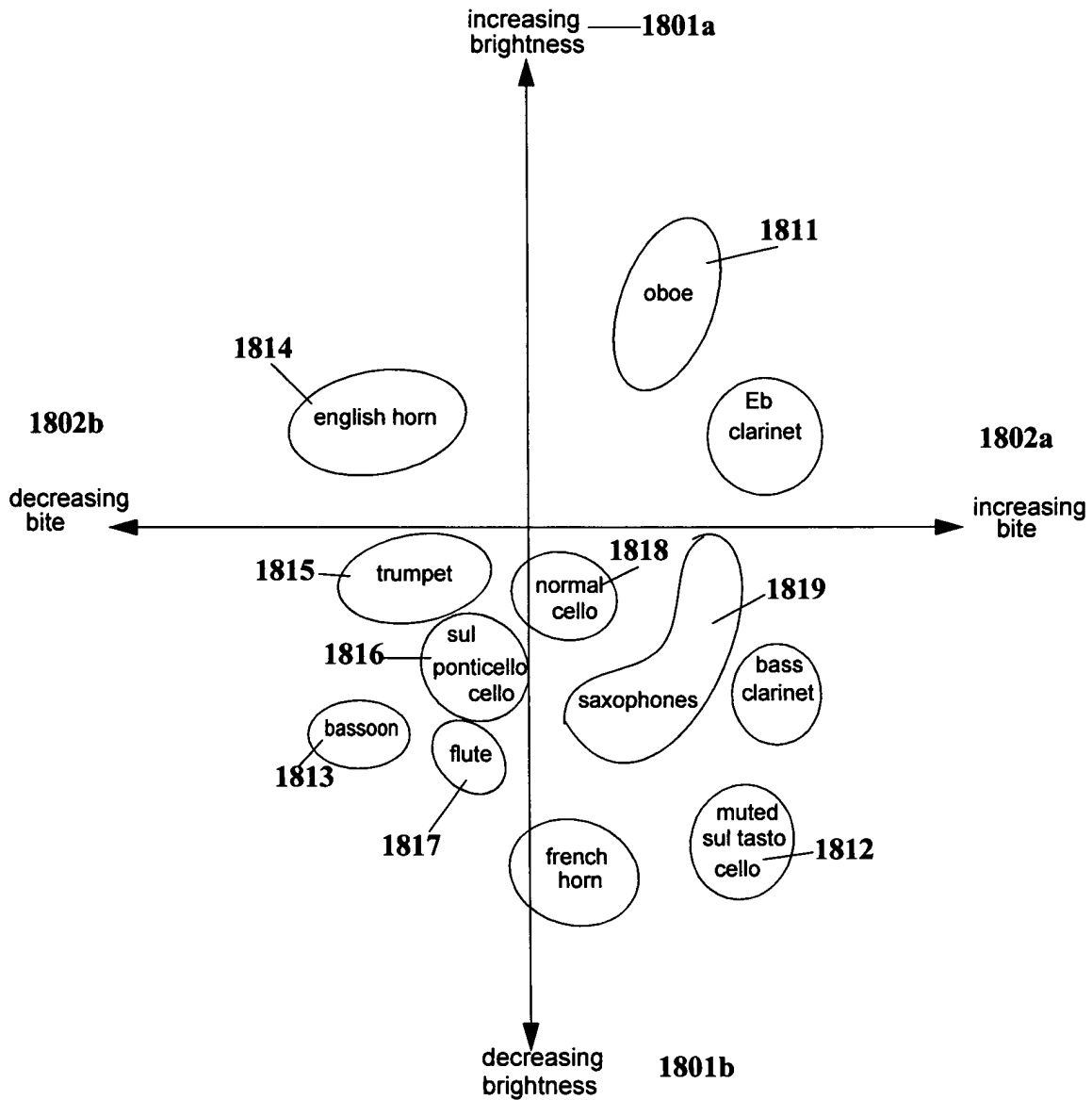


STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 18

18 / 72



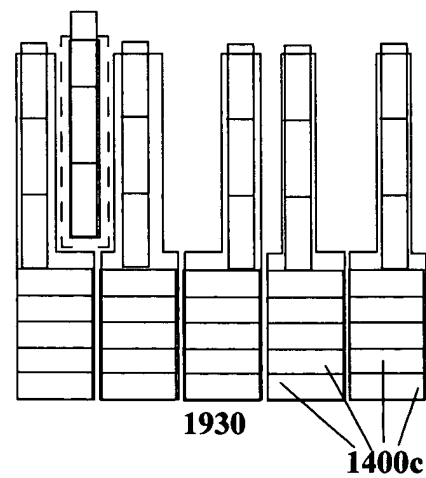
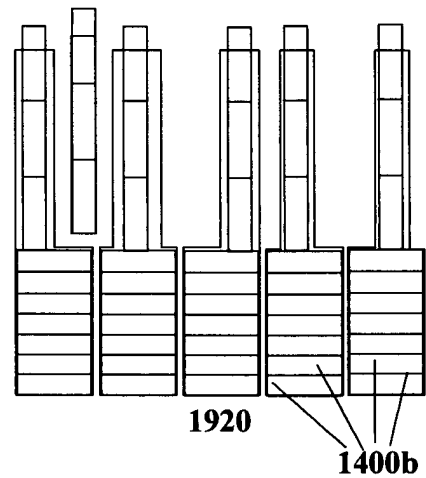
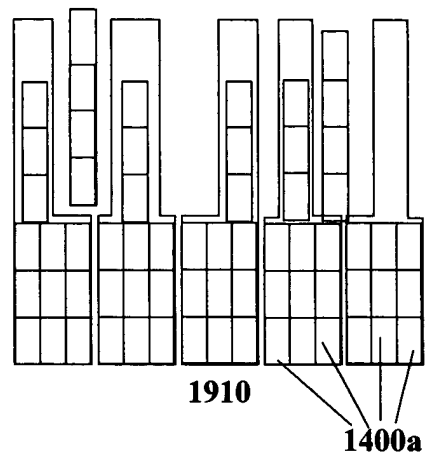
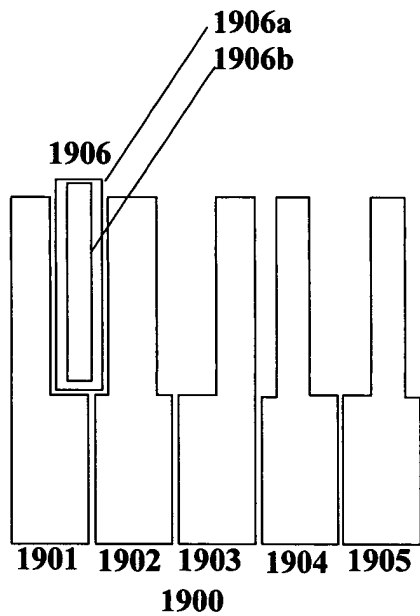
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

19 / 72

Figure 19



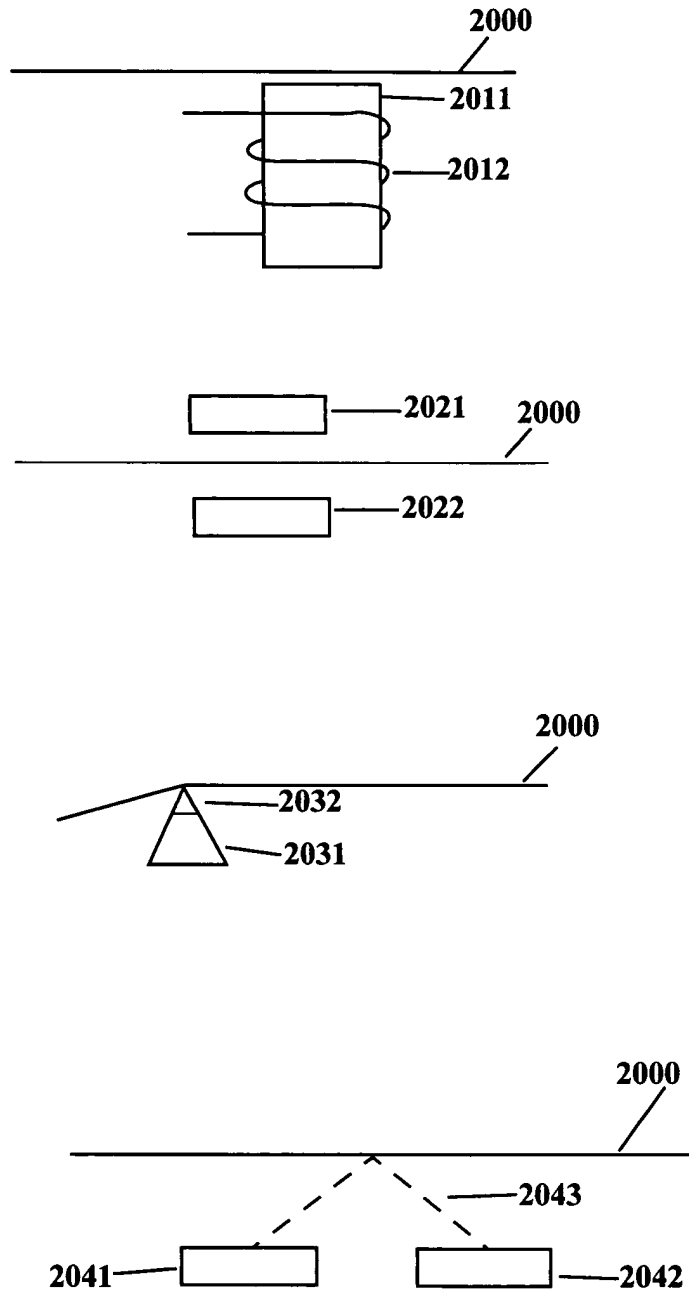
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

20 / 72

Figure 20



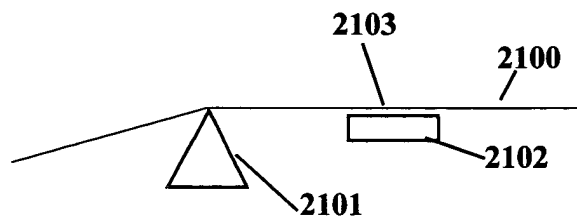
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 21

21 / 72

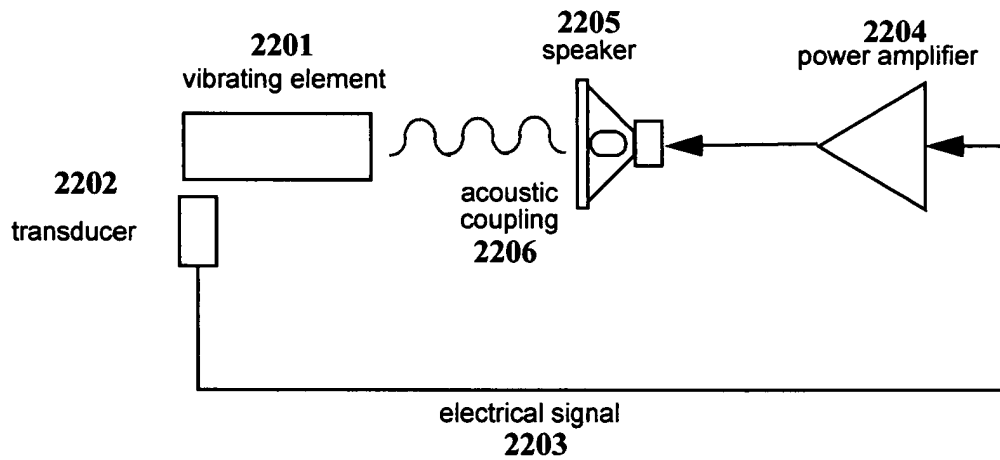


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 22

22 / 72



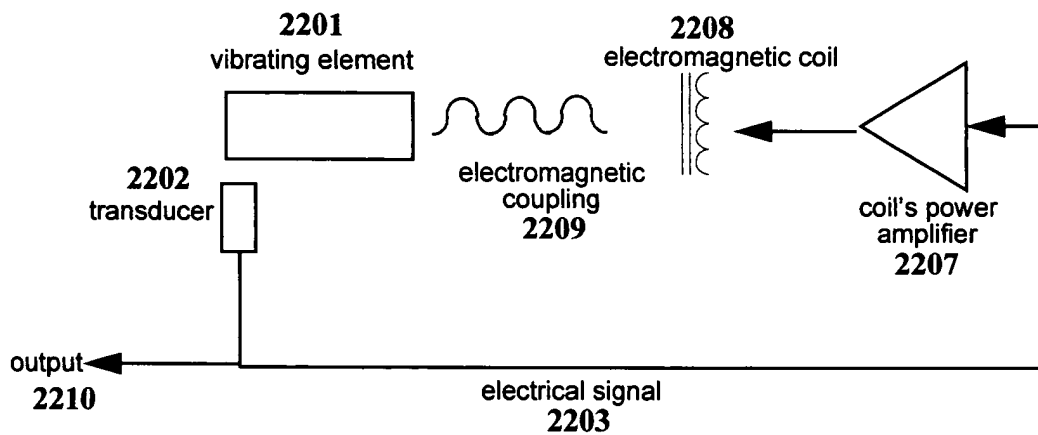
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 23

23 / 72

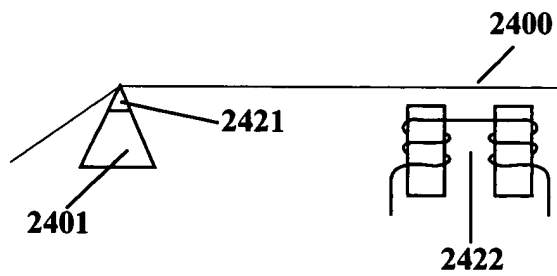
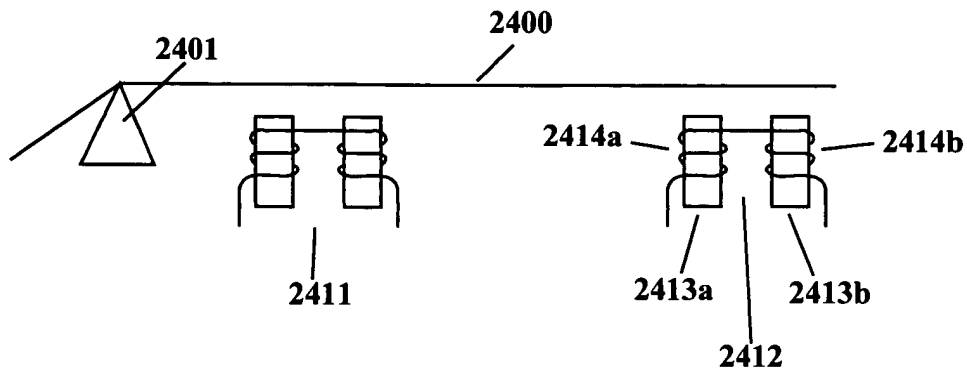


STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 24

24 / 72

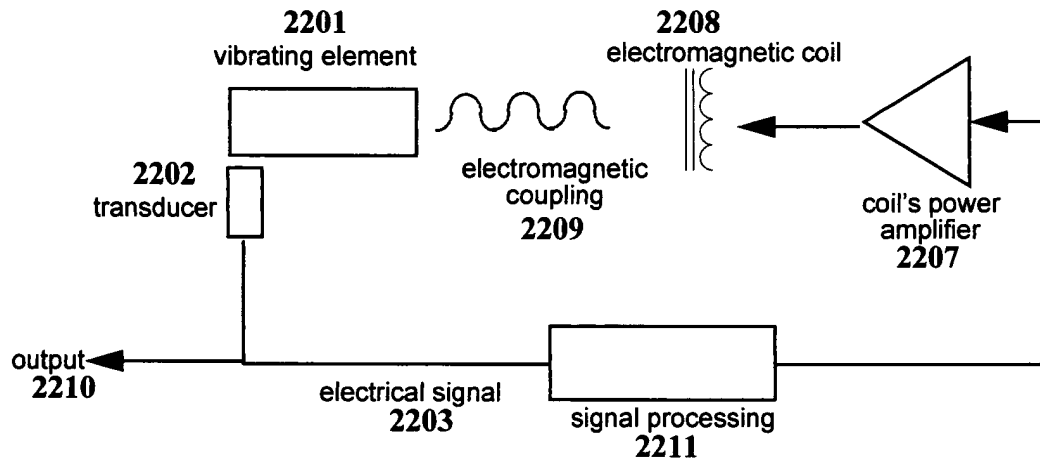


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

25 / 72

Figure 25



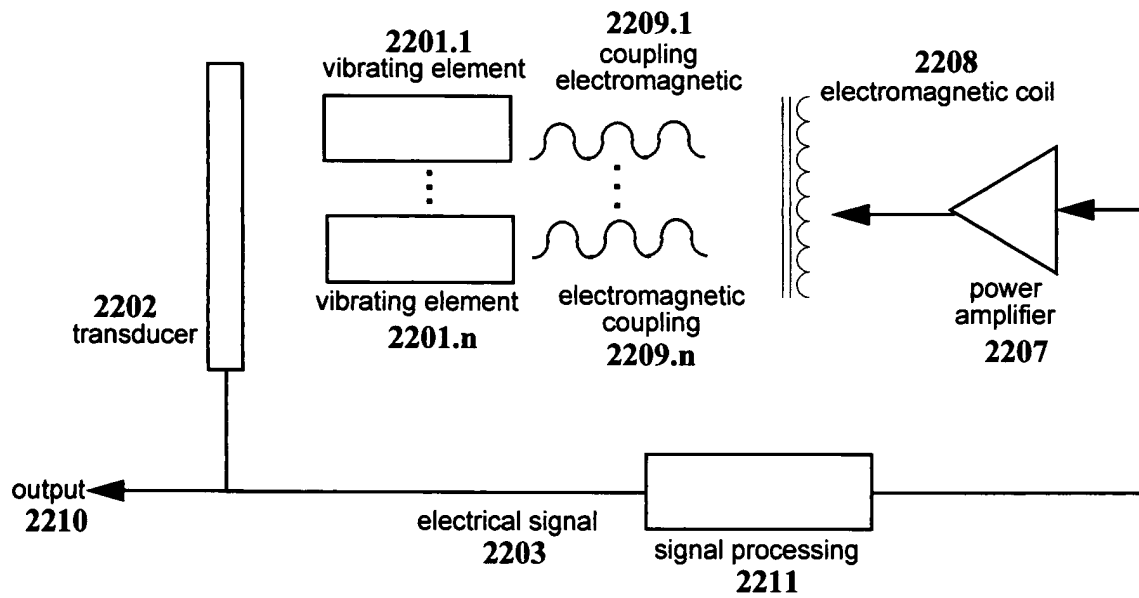
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

26 / 72

Figure 26



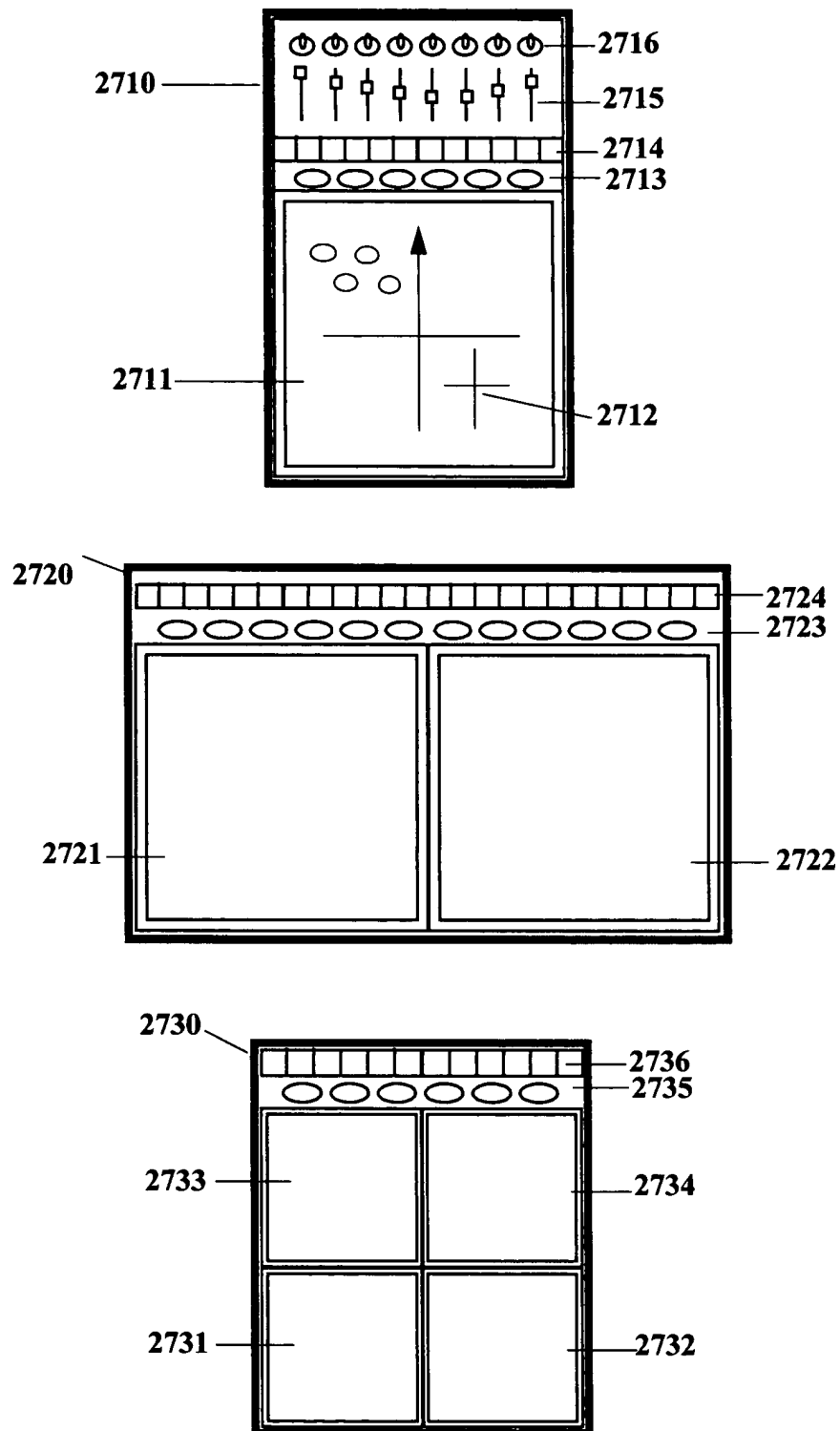
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

27 / 72

Figure 27



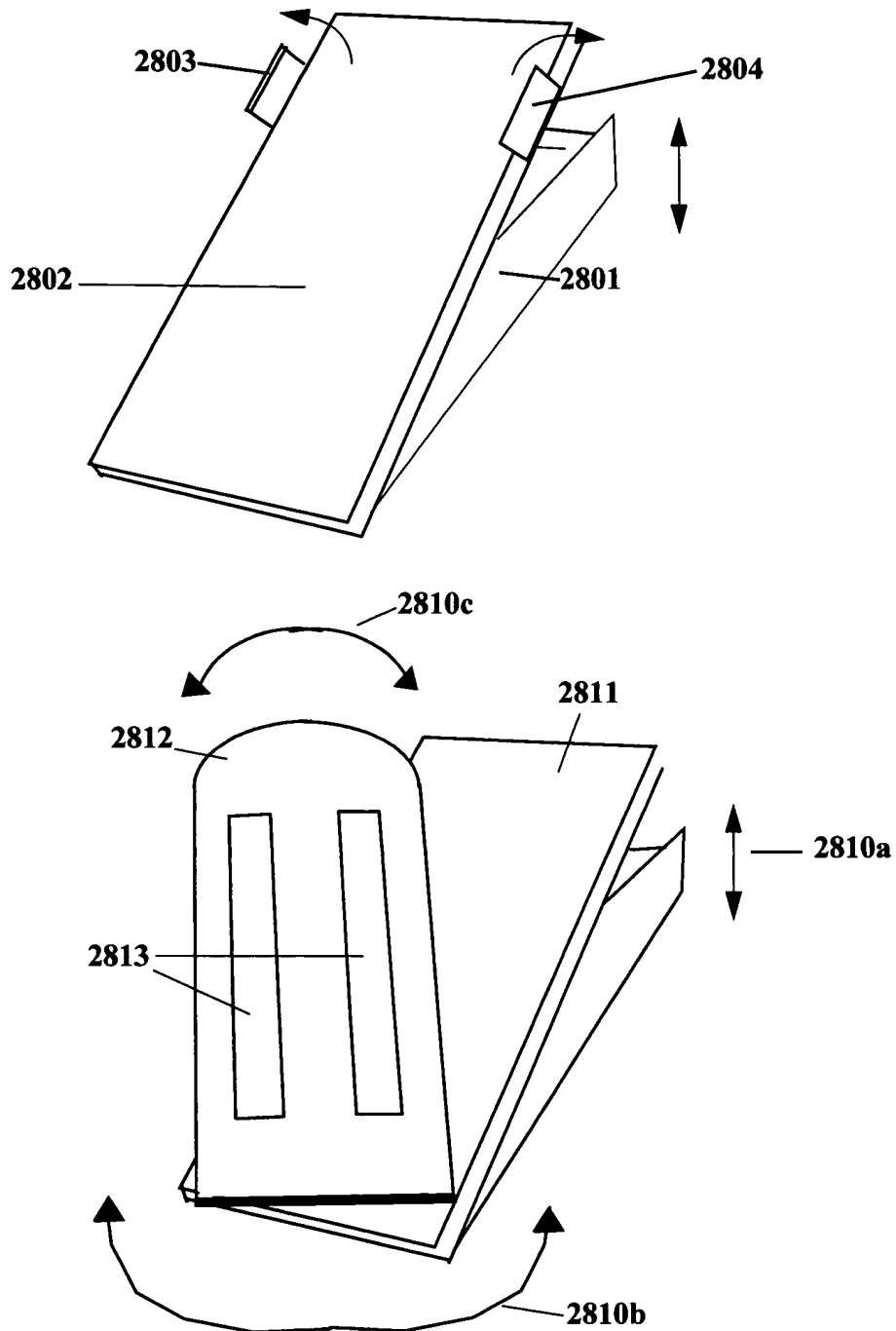
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 28

28 / 72



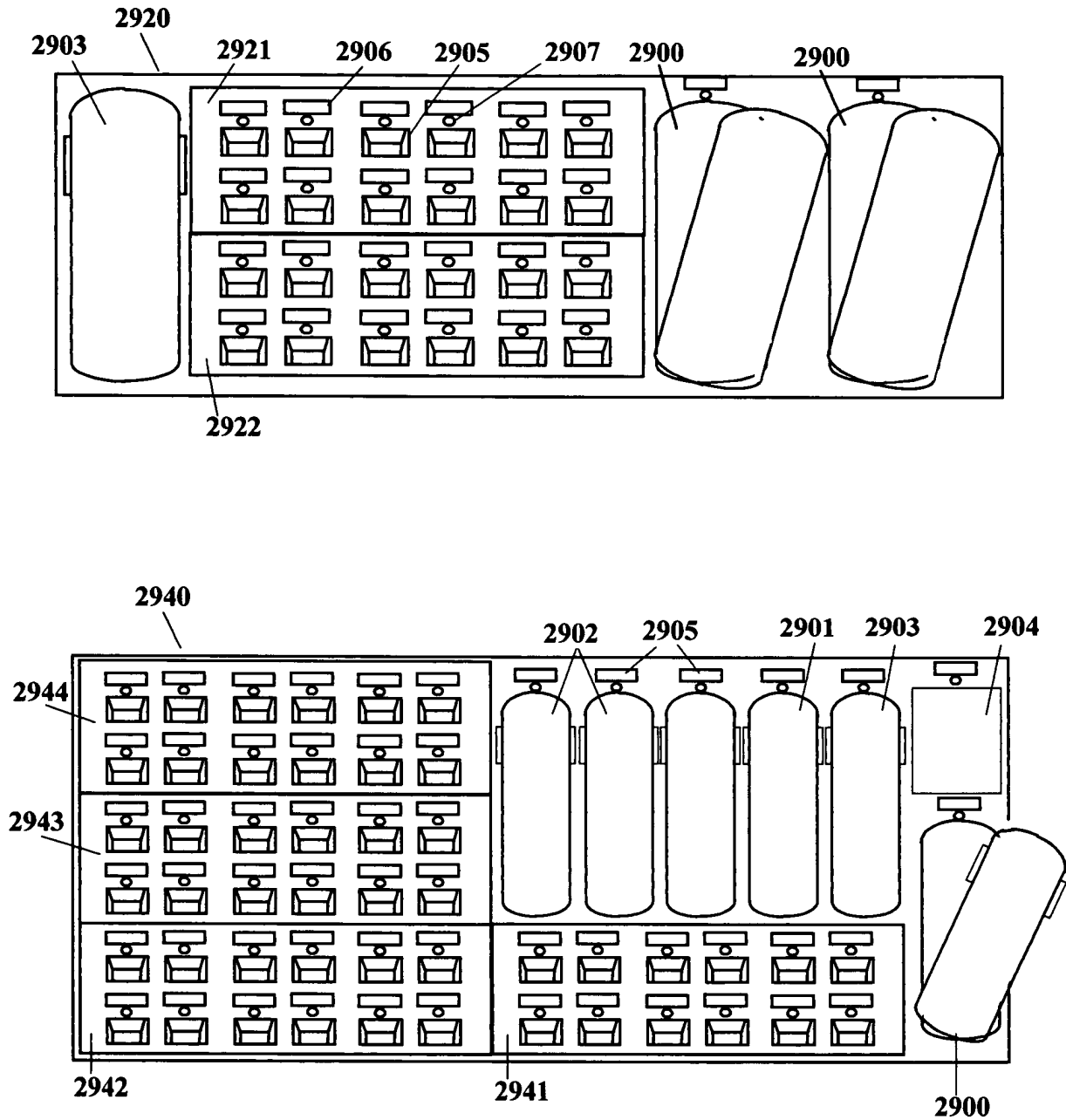
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 29

29 / 72



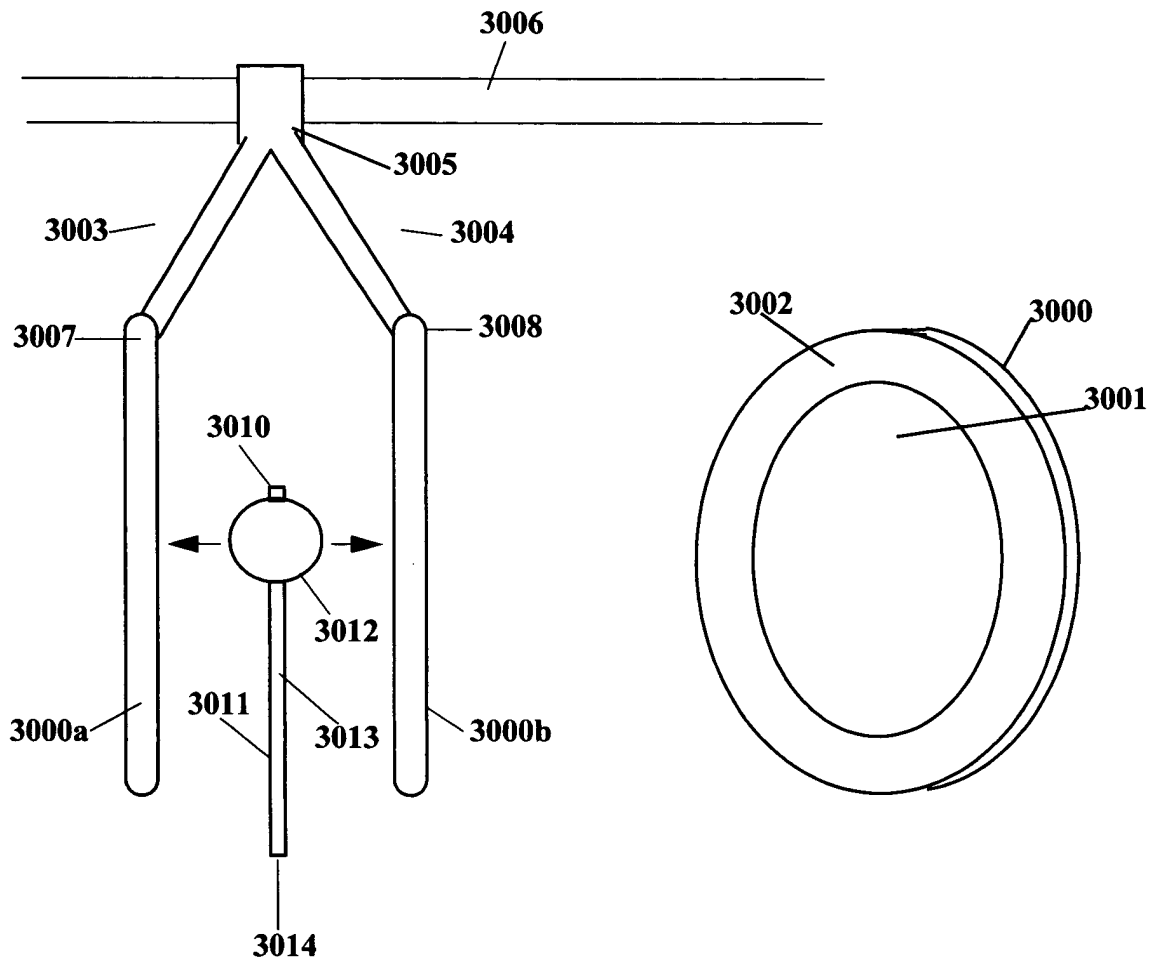
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 30

30 / 72

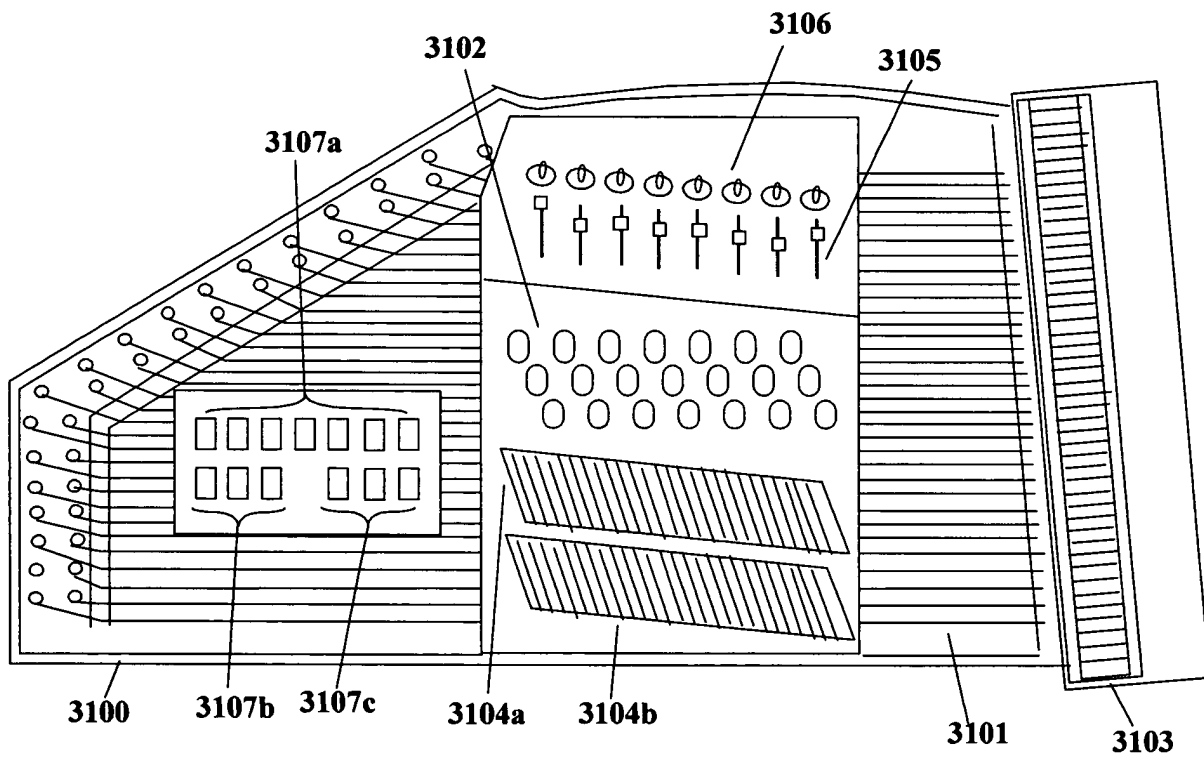


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 31

31 / 72

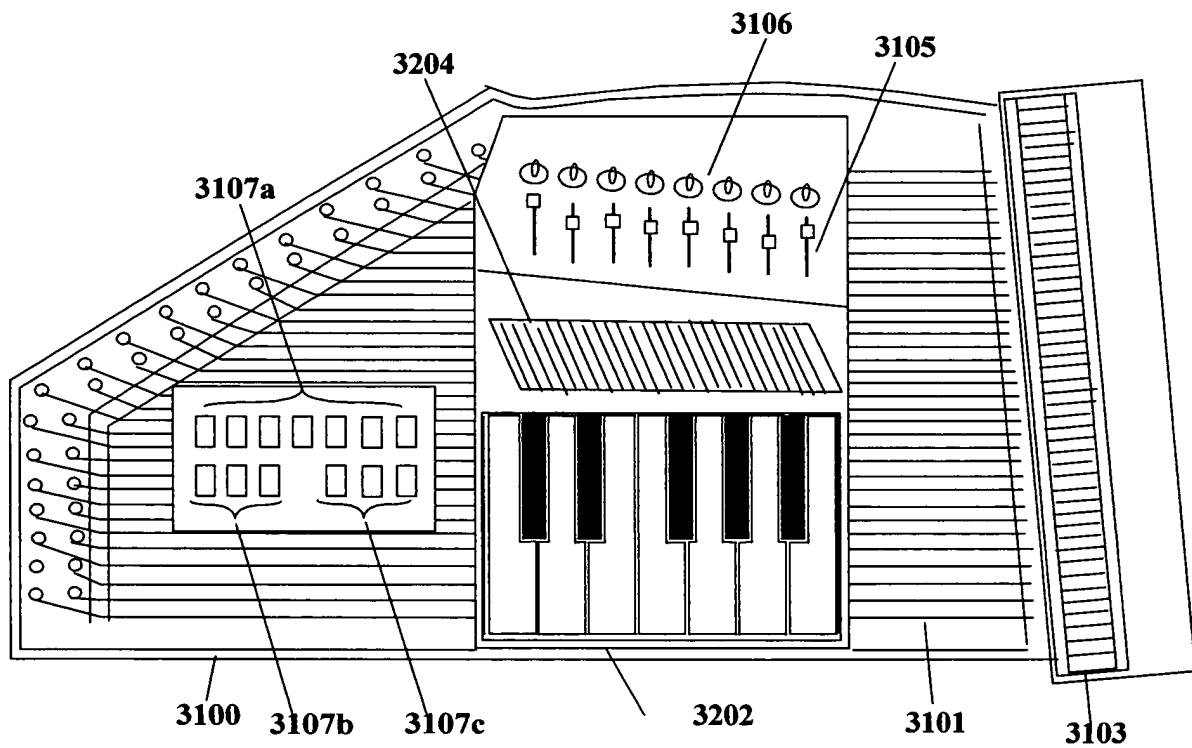


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

32 / 72

Figure 32



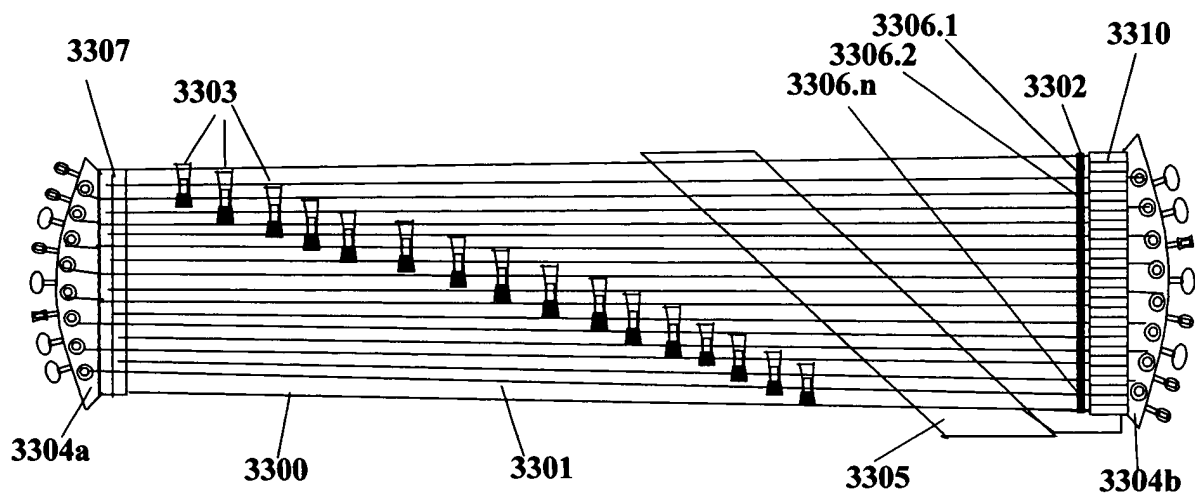
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 33

33 / 72



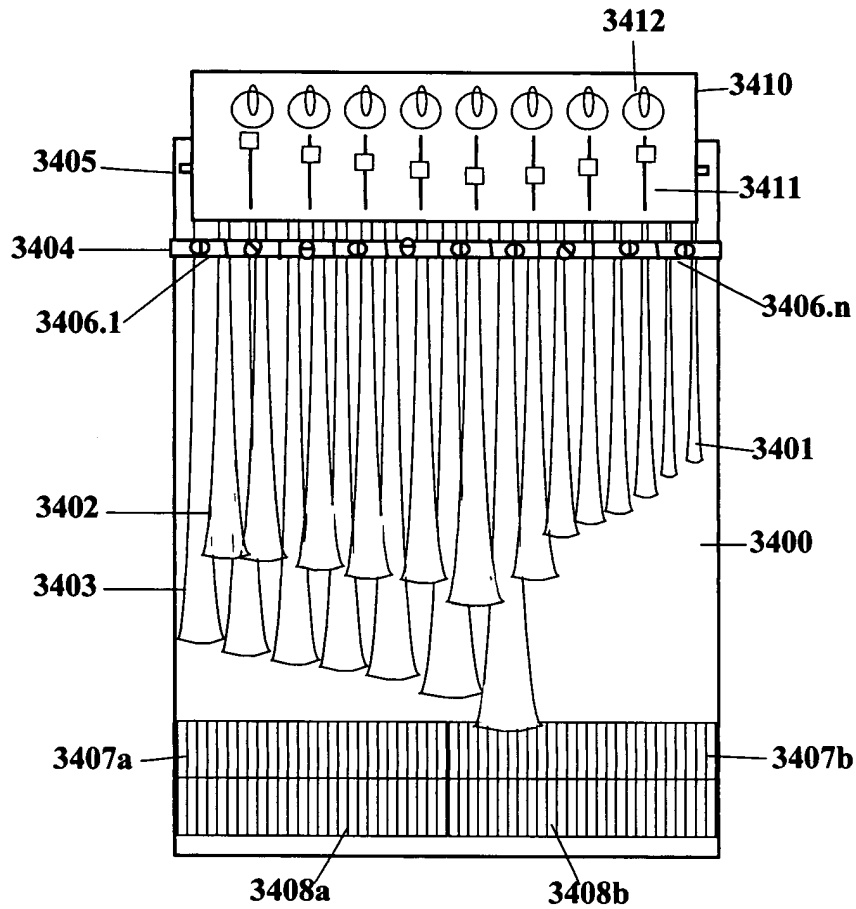
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

34 / 72

Figure 34

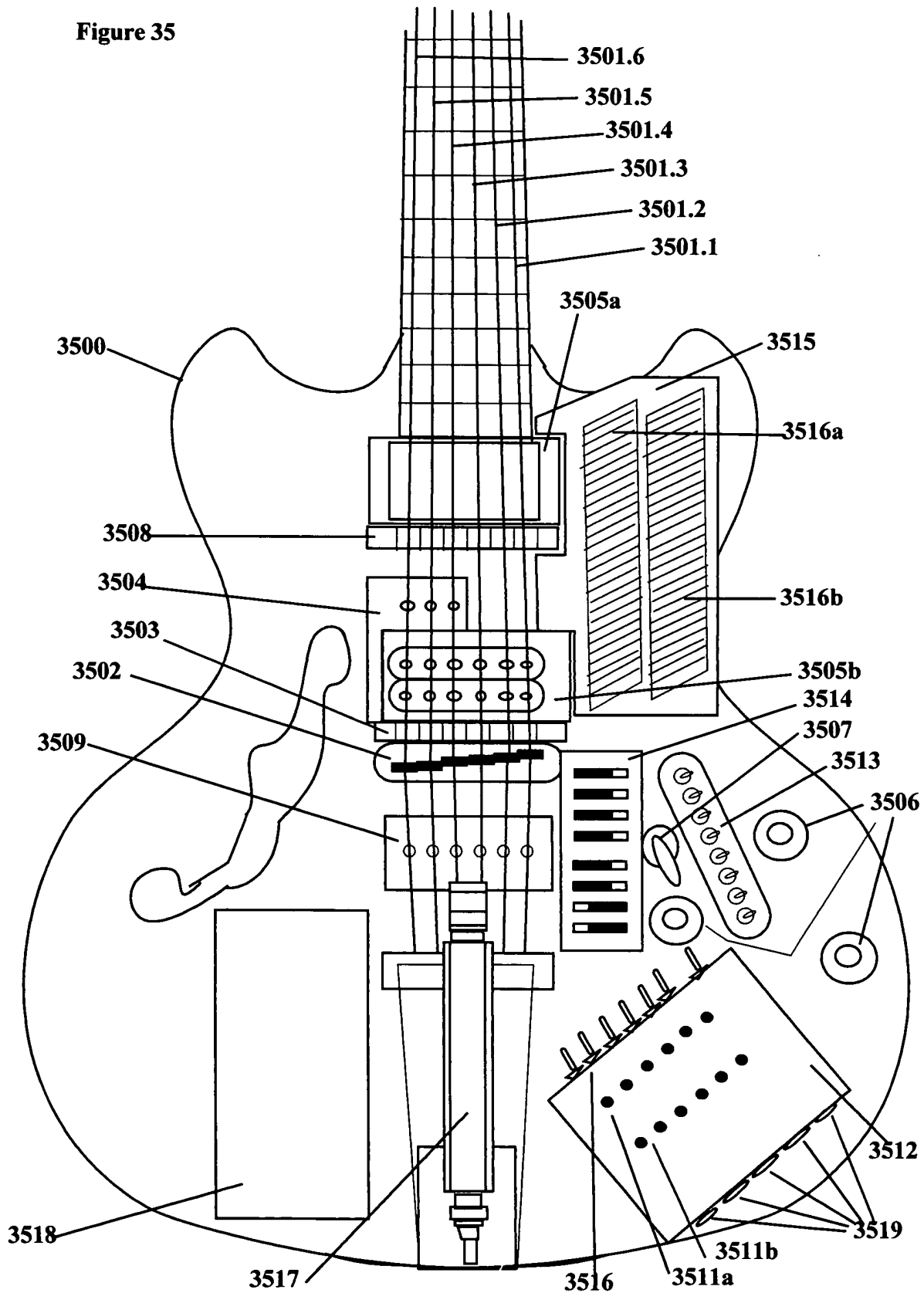


STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

35 / 72

Figure 35

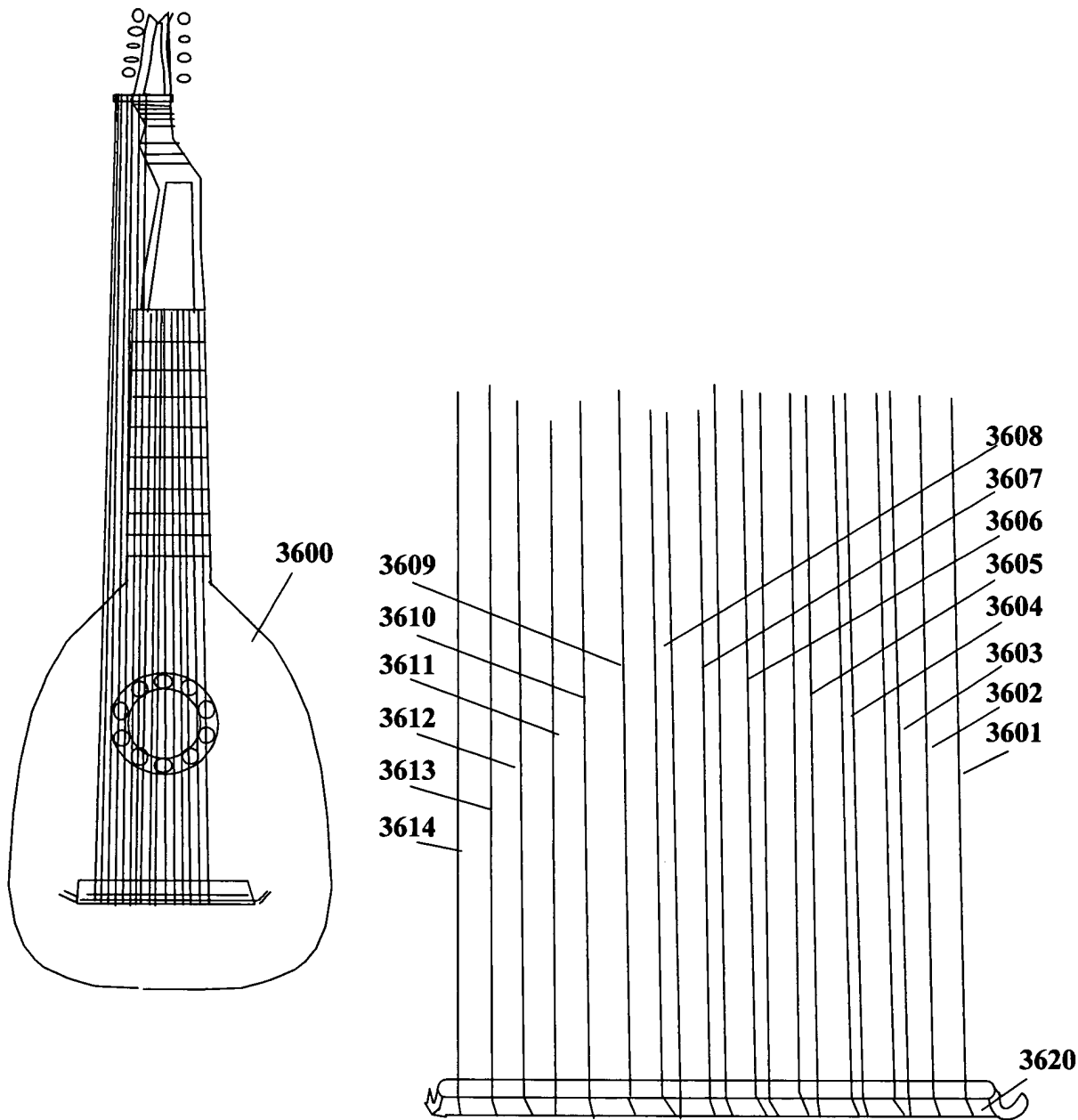


STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

36 / 72

Figure 36

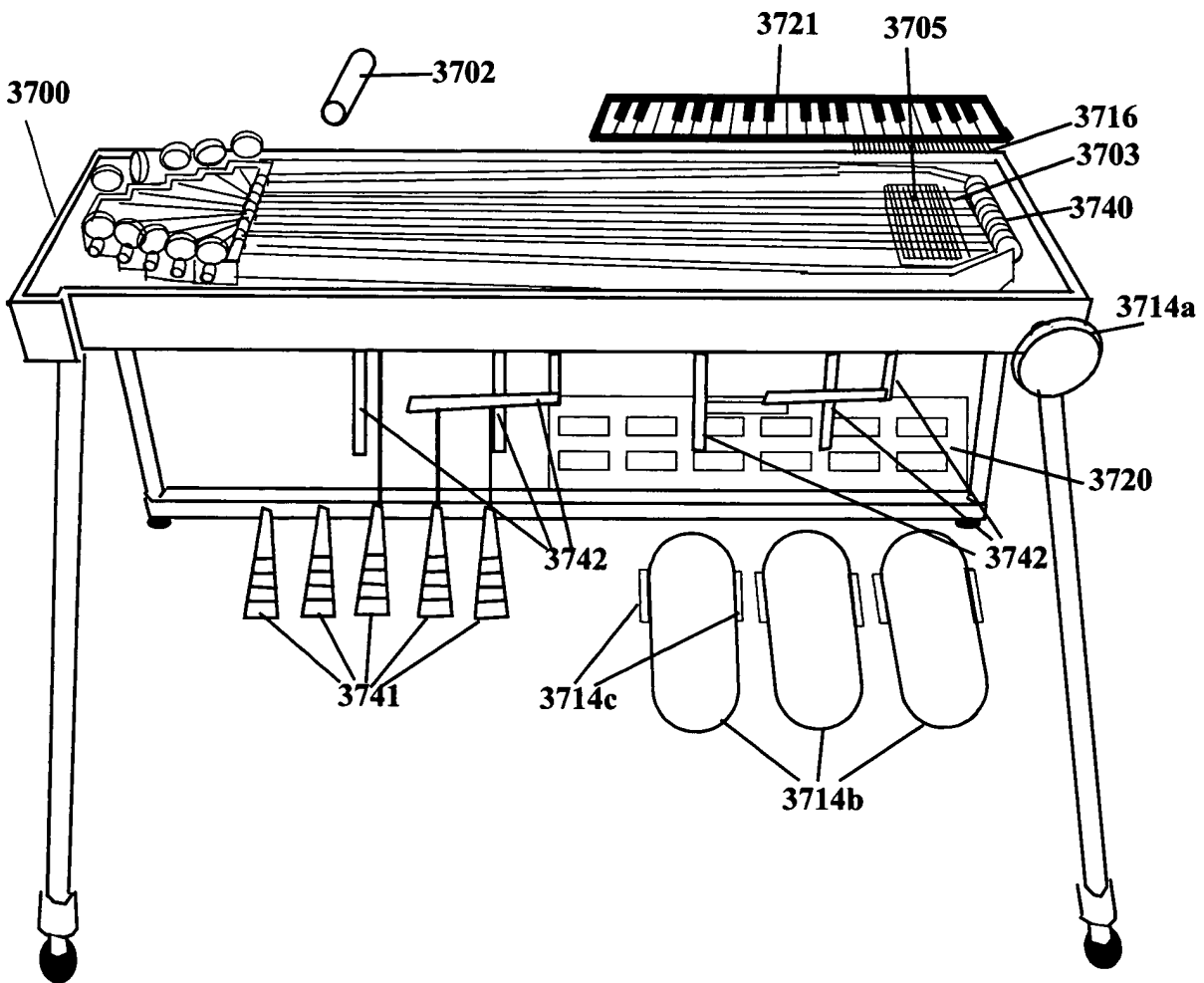


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 37

37 / 72



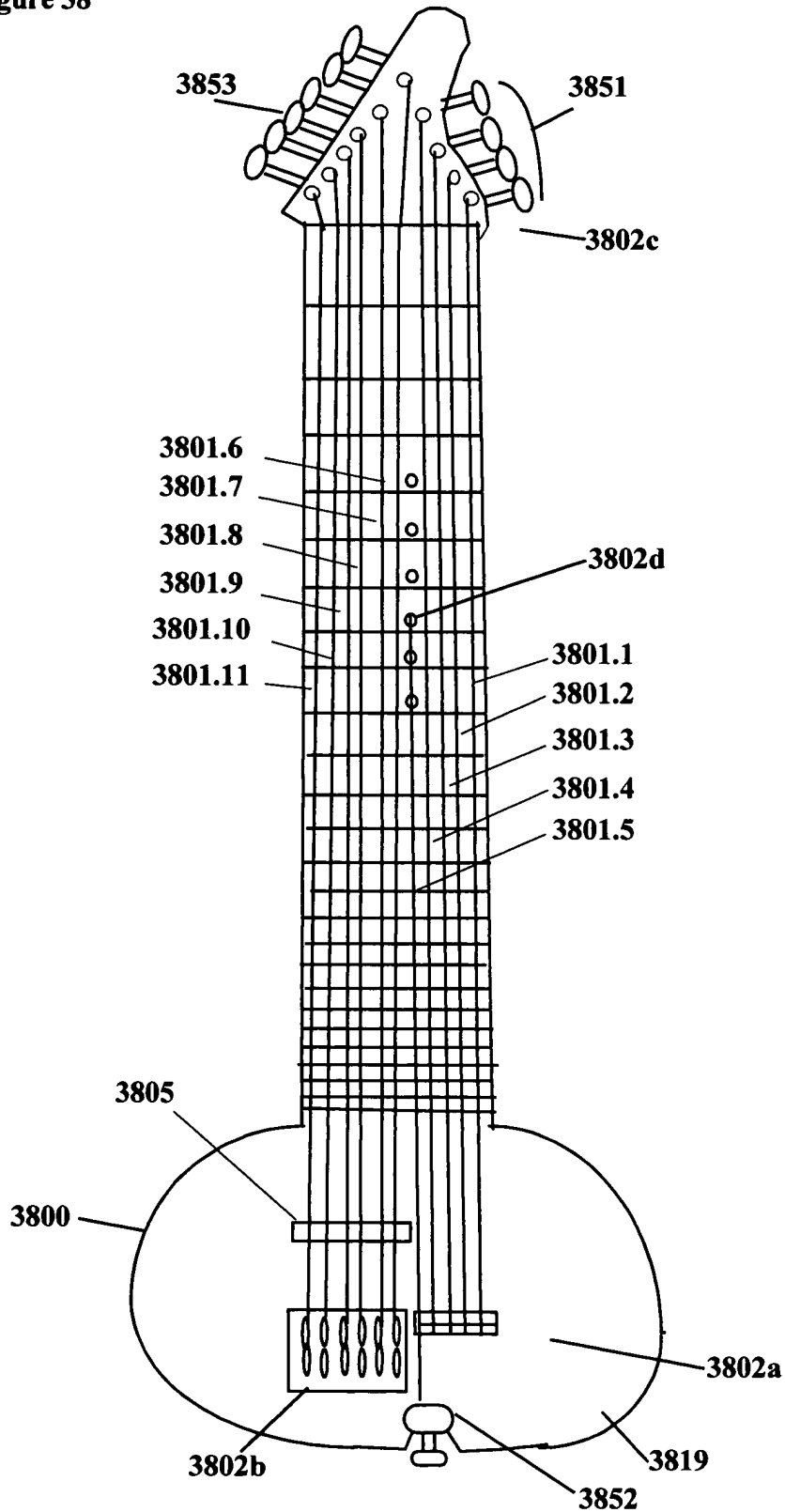
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

38 / 72

Figure 38



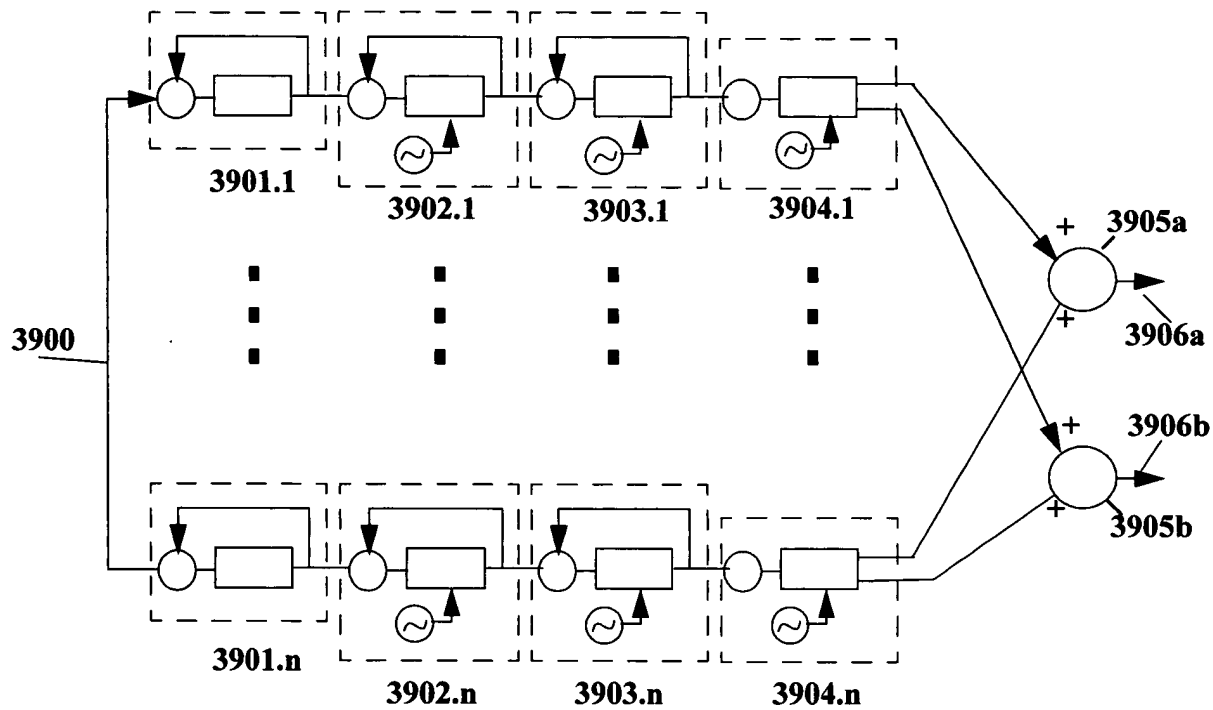
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

39 / 72

Figure 39



**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

40 / 72

Figure 40

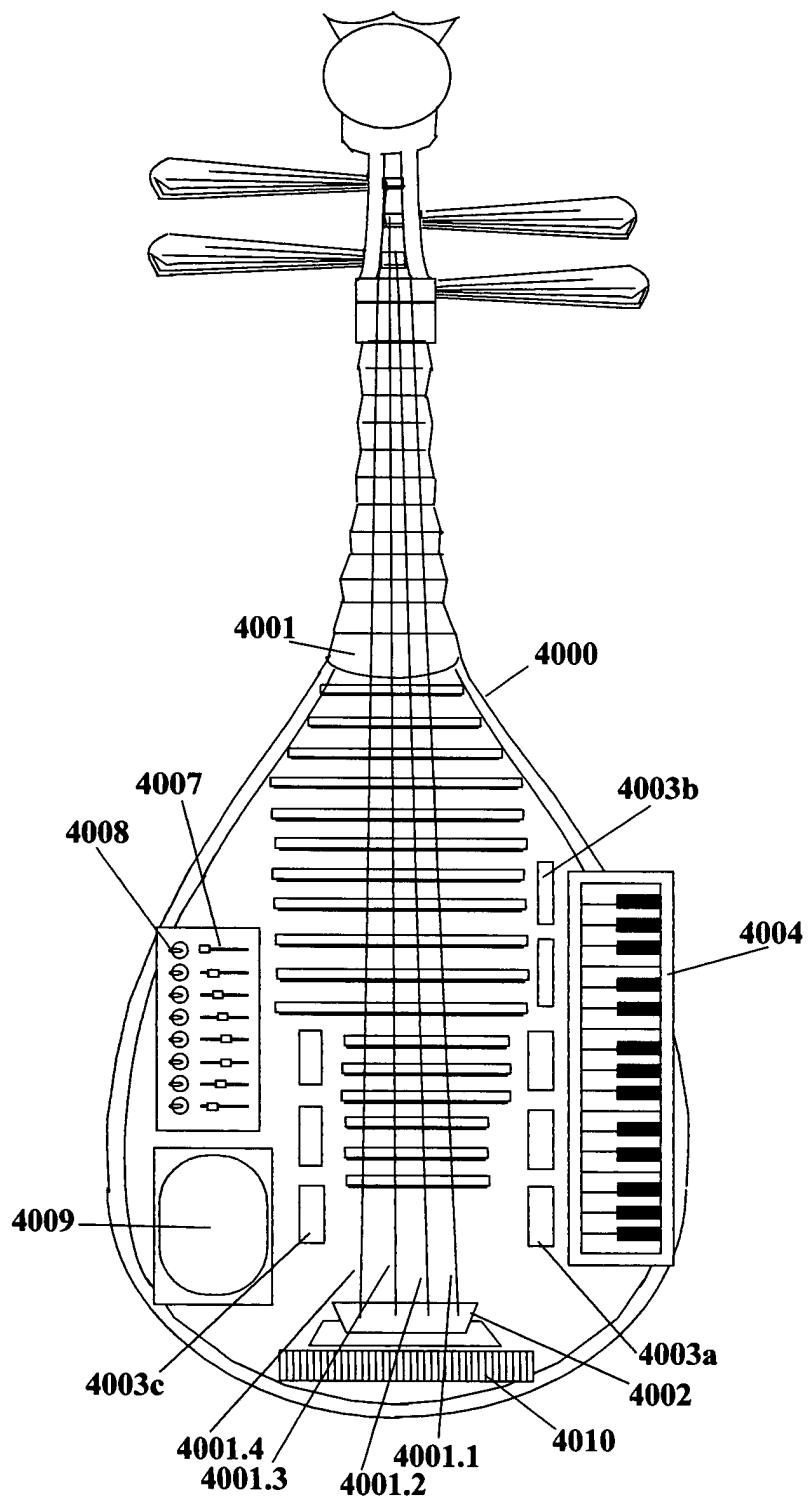
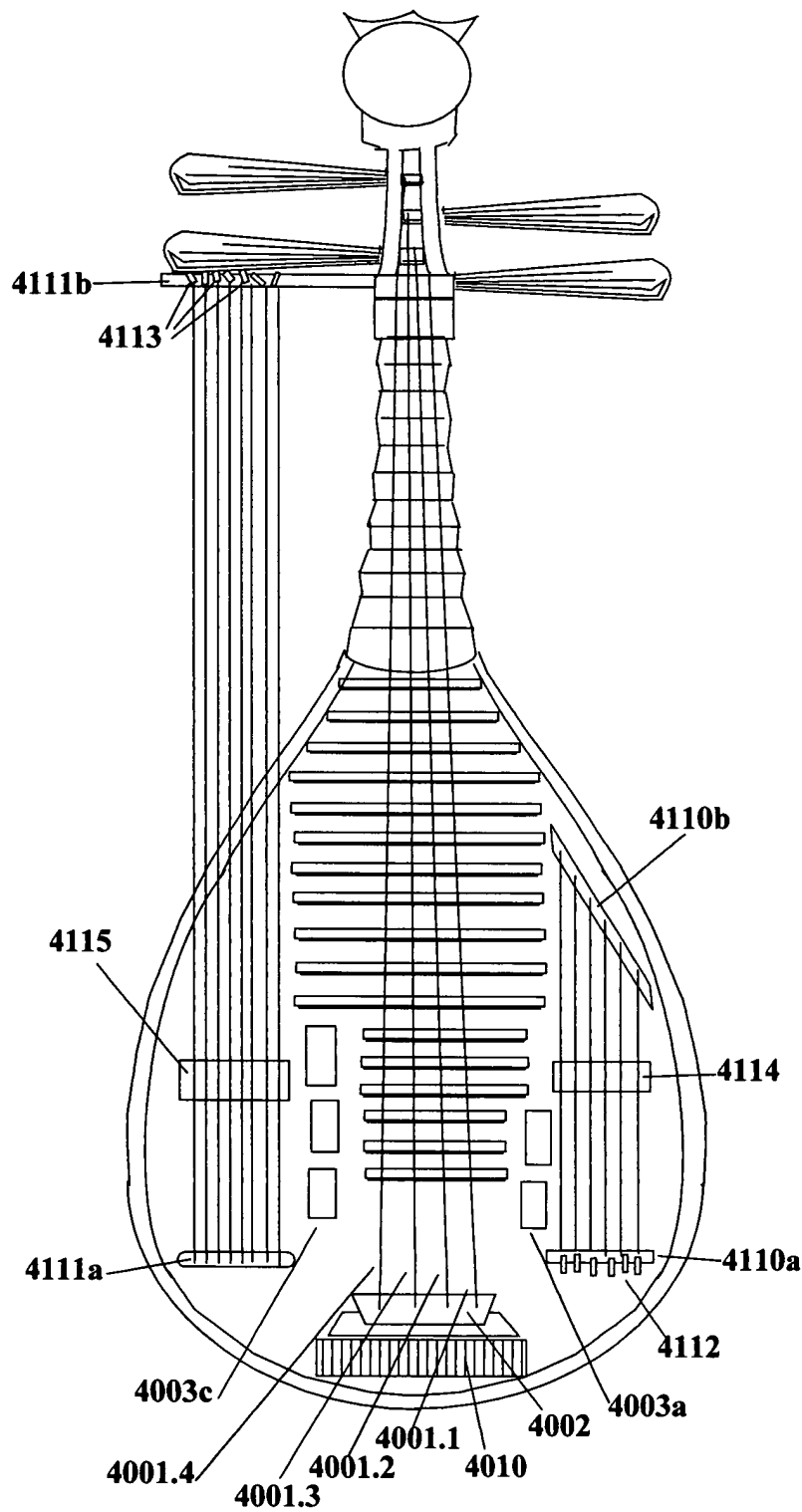


Figure 41



**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 42

42 / 72

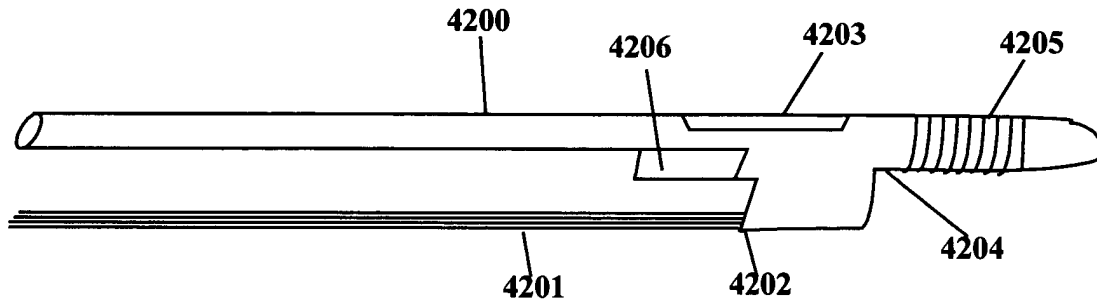


Figure 43

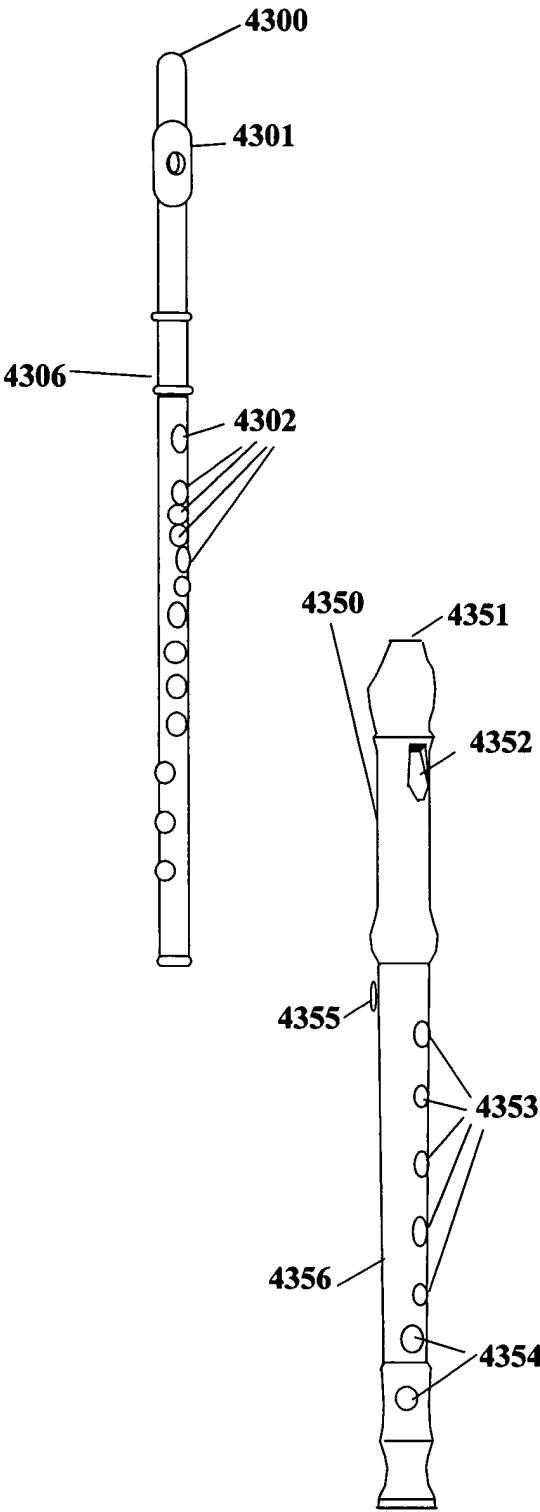
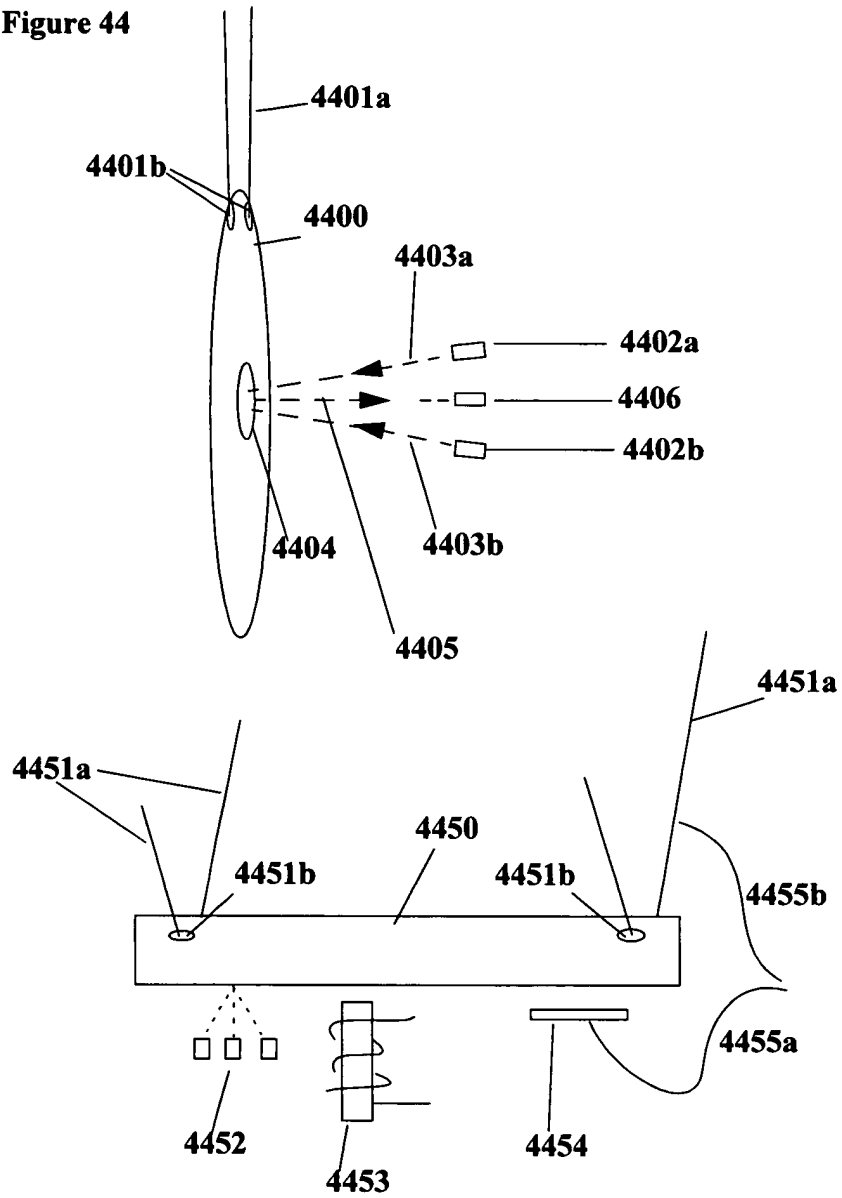


Figure 44



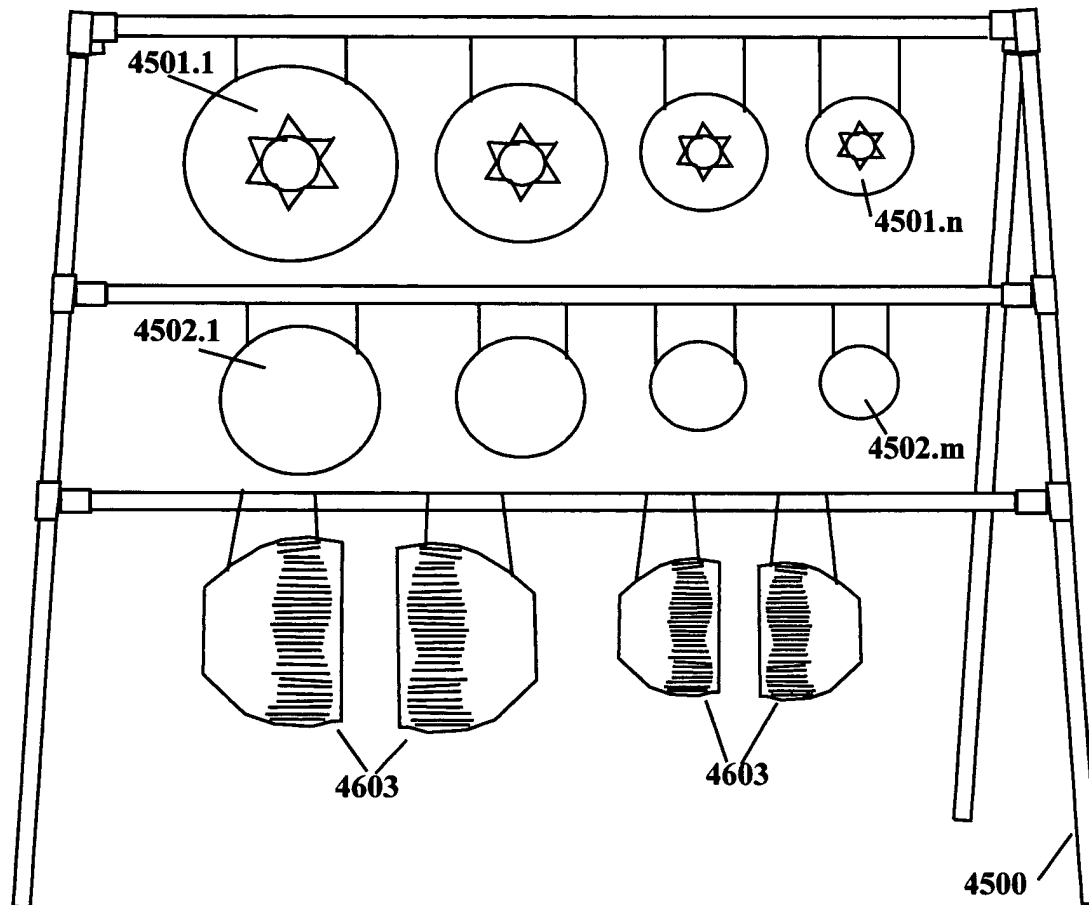
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 45

45 / 72

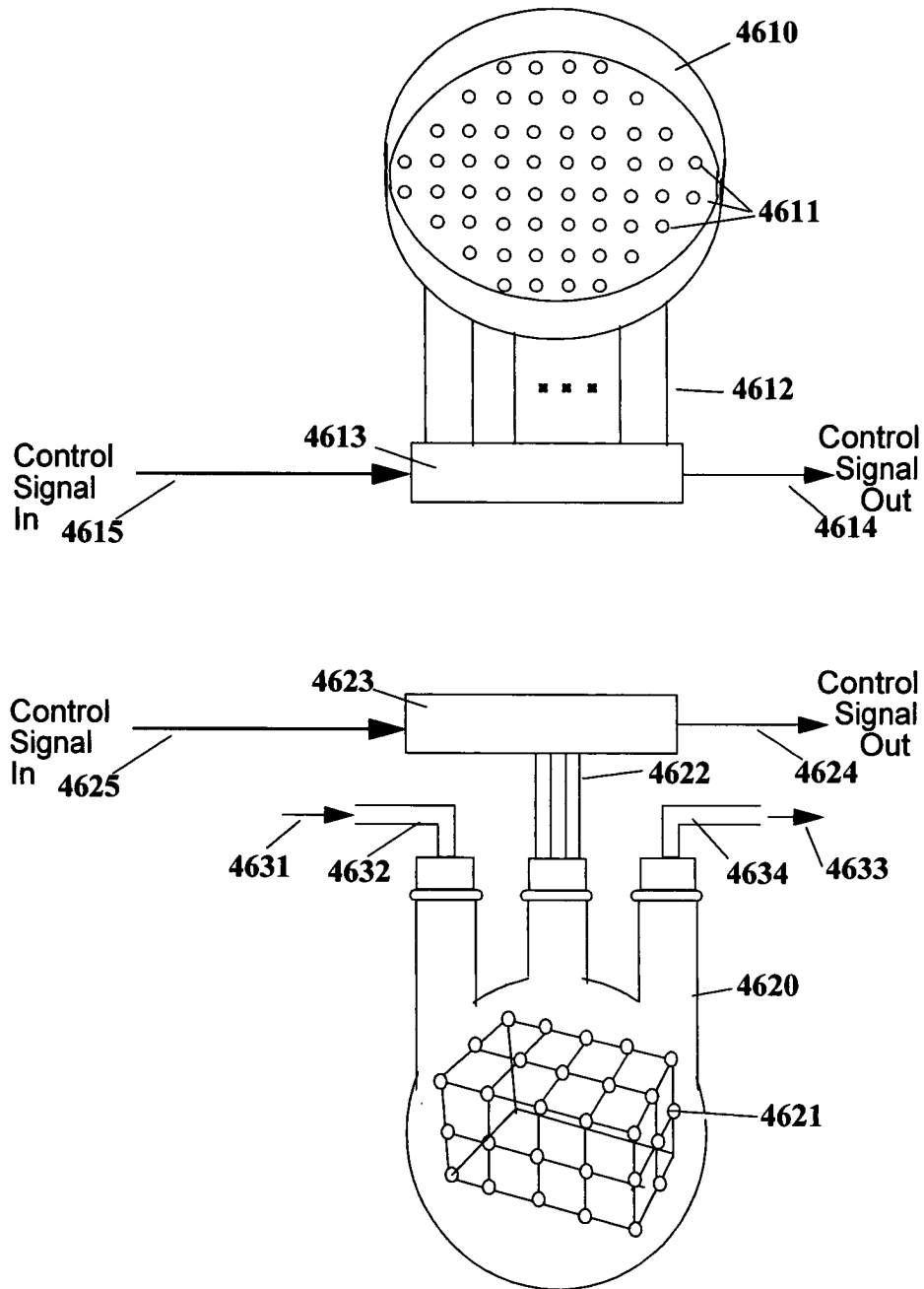


STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

46 / 72

Figure 46



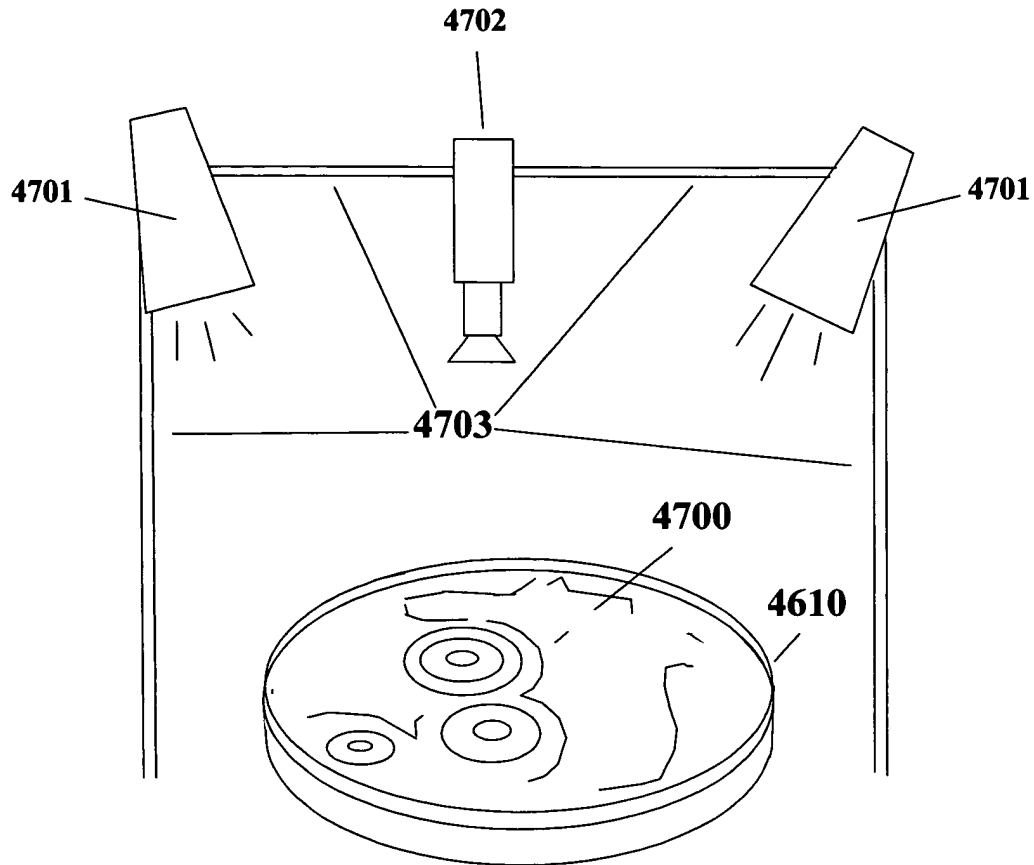
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

47 / 72

Figure 47



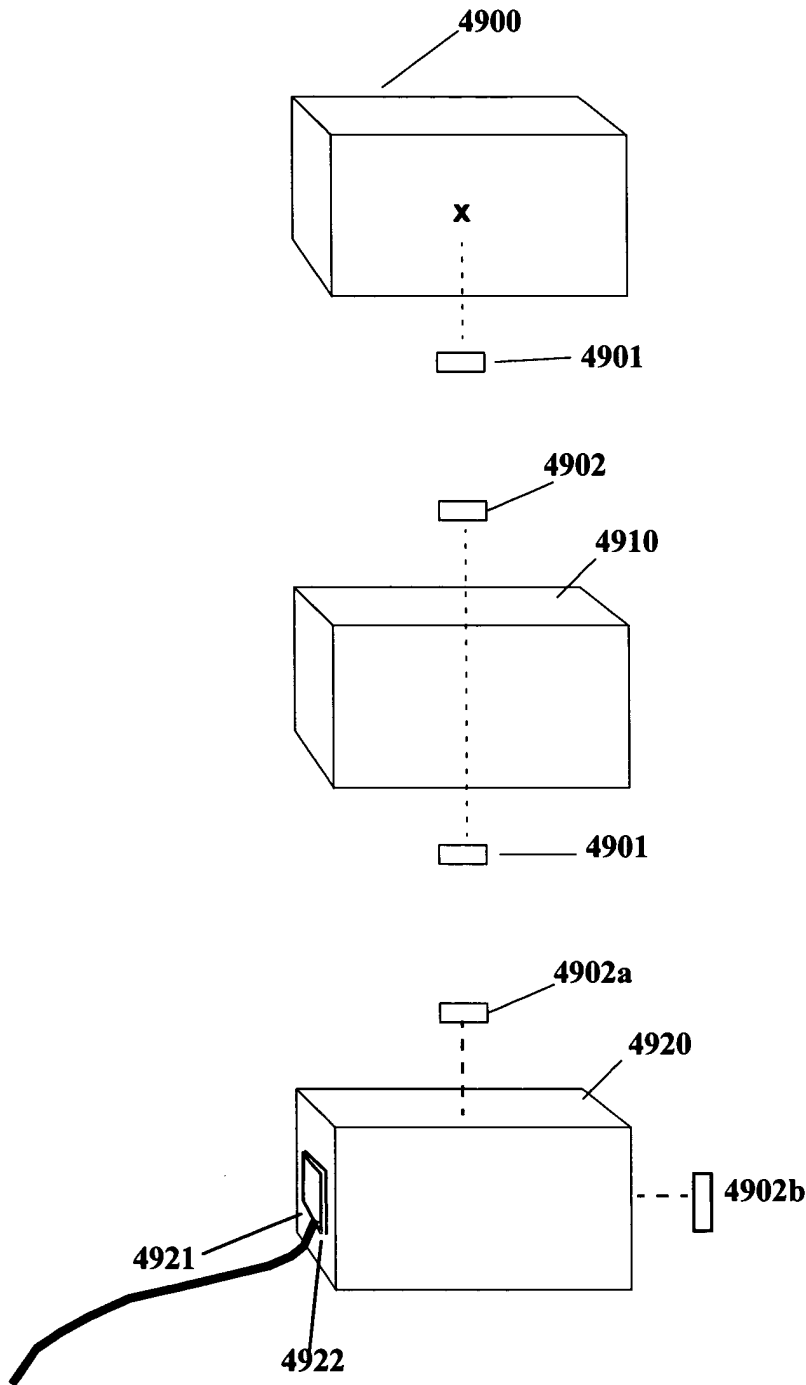
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

48 / 72

Figure 48



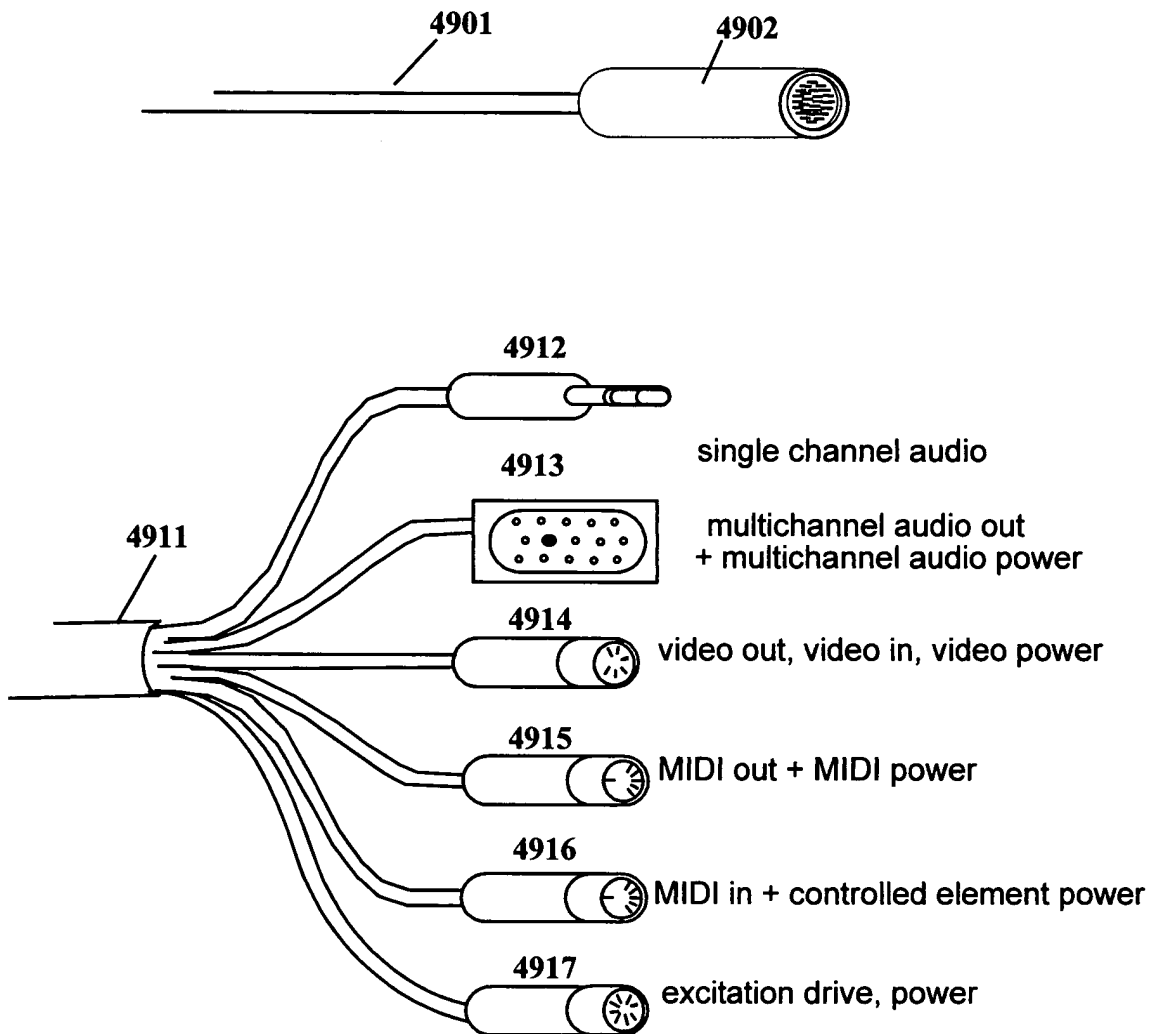
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 49

49 / 72

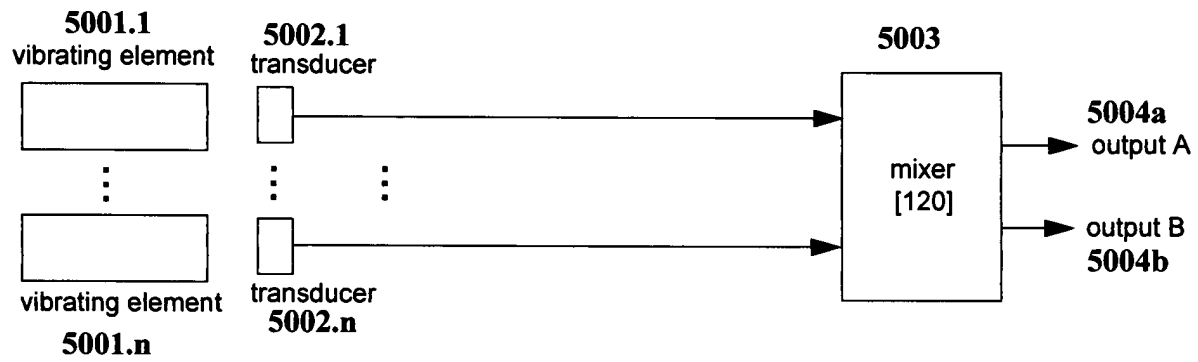


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

50 / 72

Figure 50



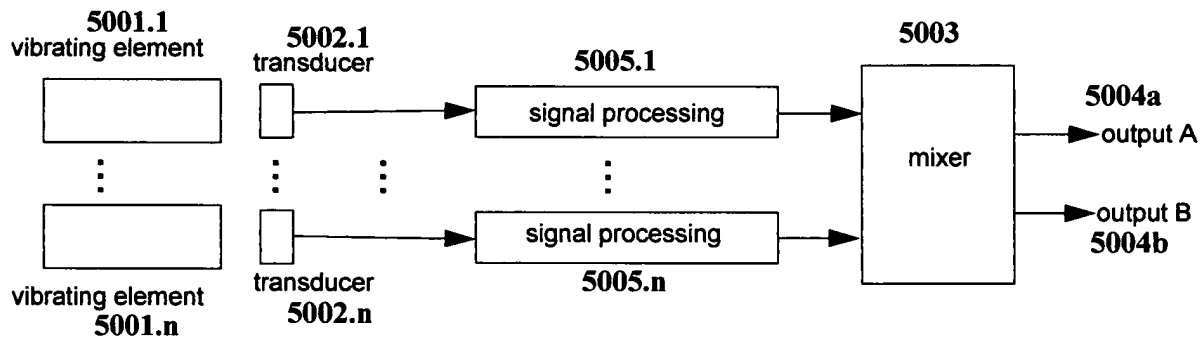
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

51 / 72

Figure 51

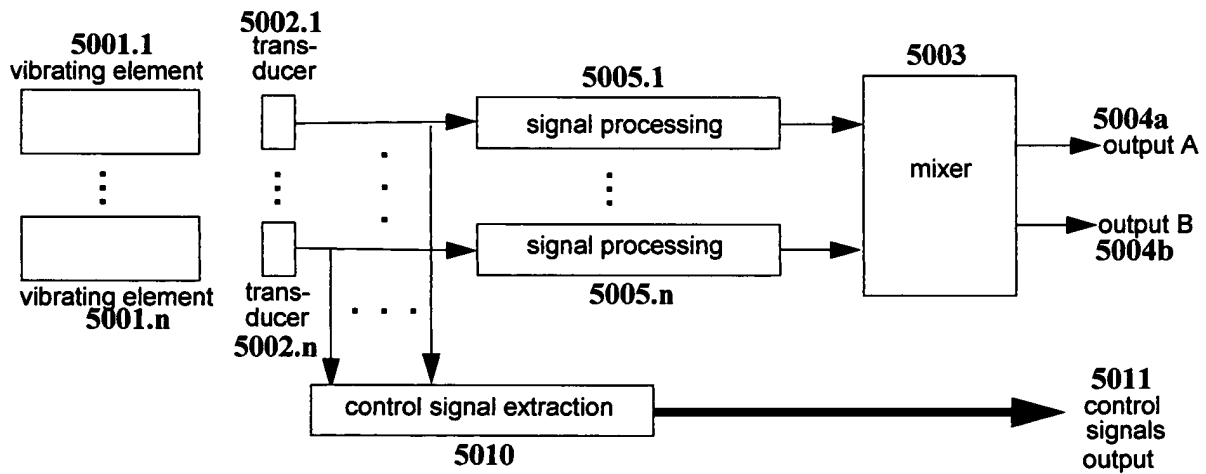


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

52 / 72

Figure 52



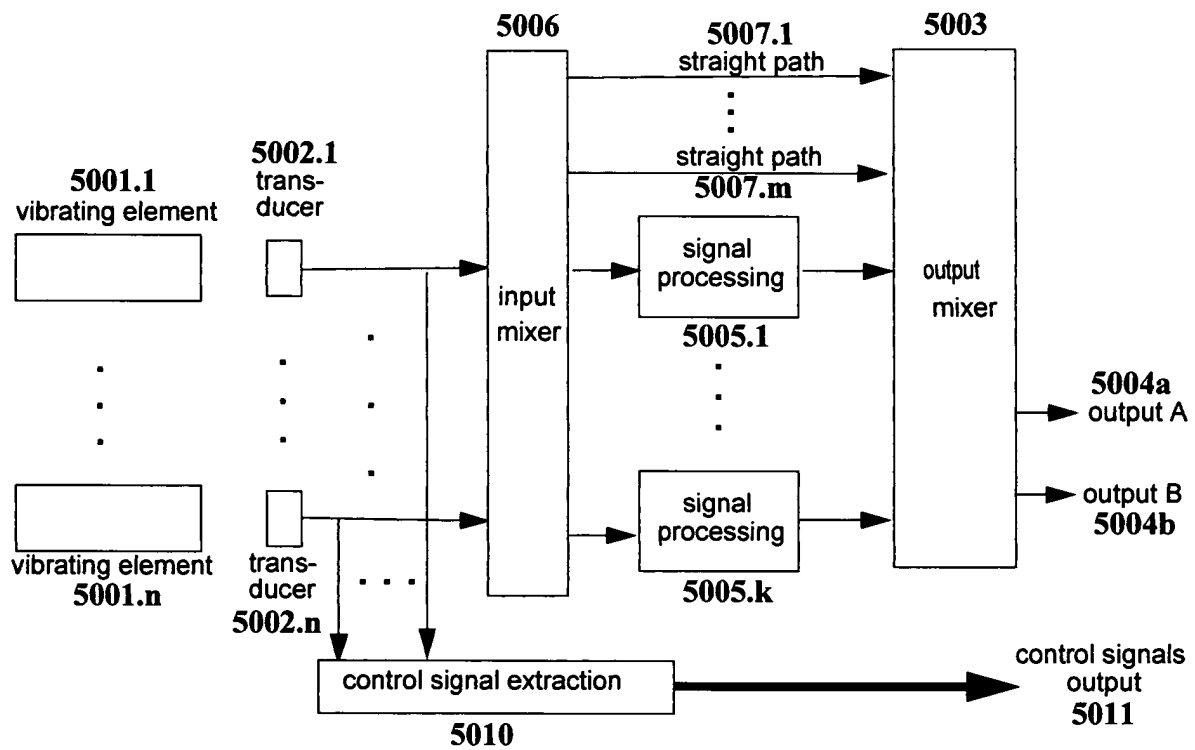
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 53

53 / 72

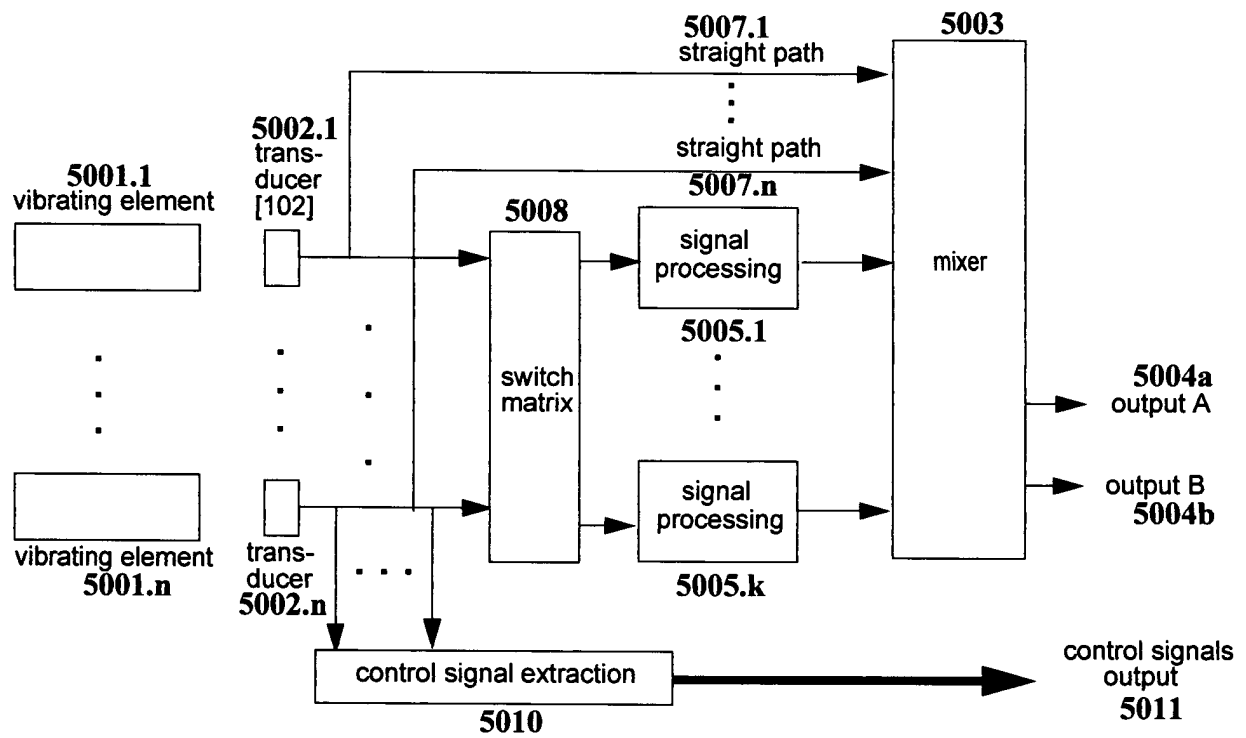


STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 54

54 / 72



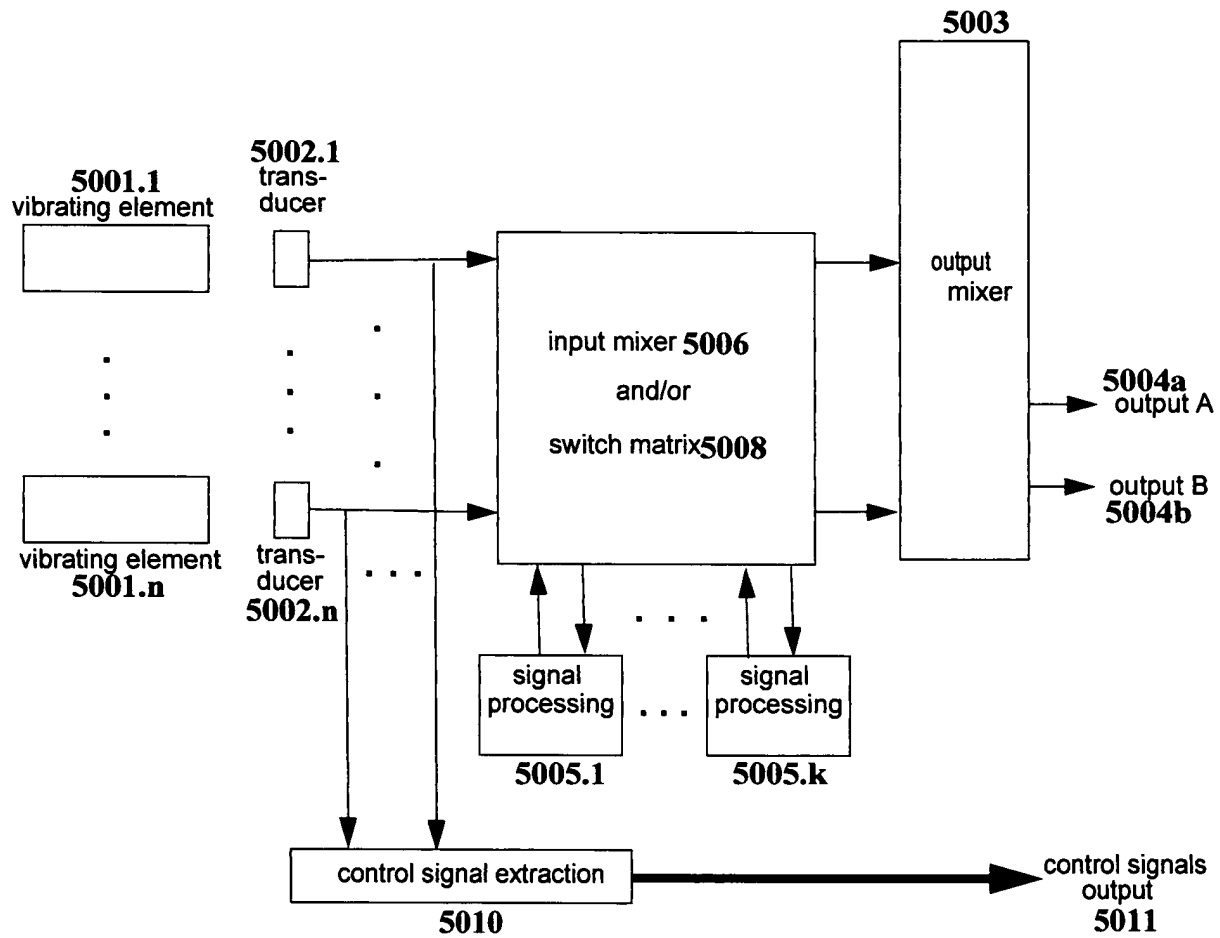
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

55 / 72

Figure 55

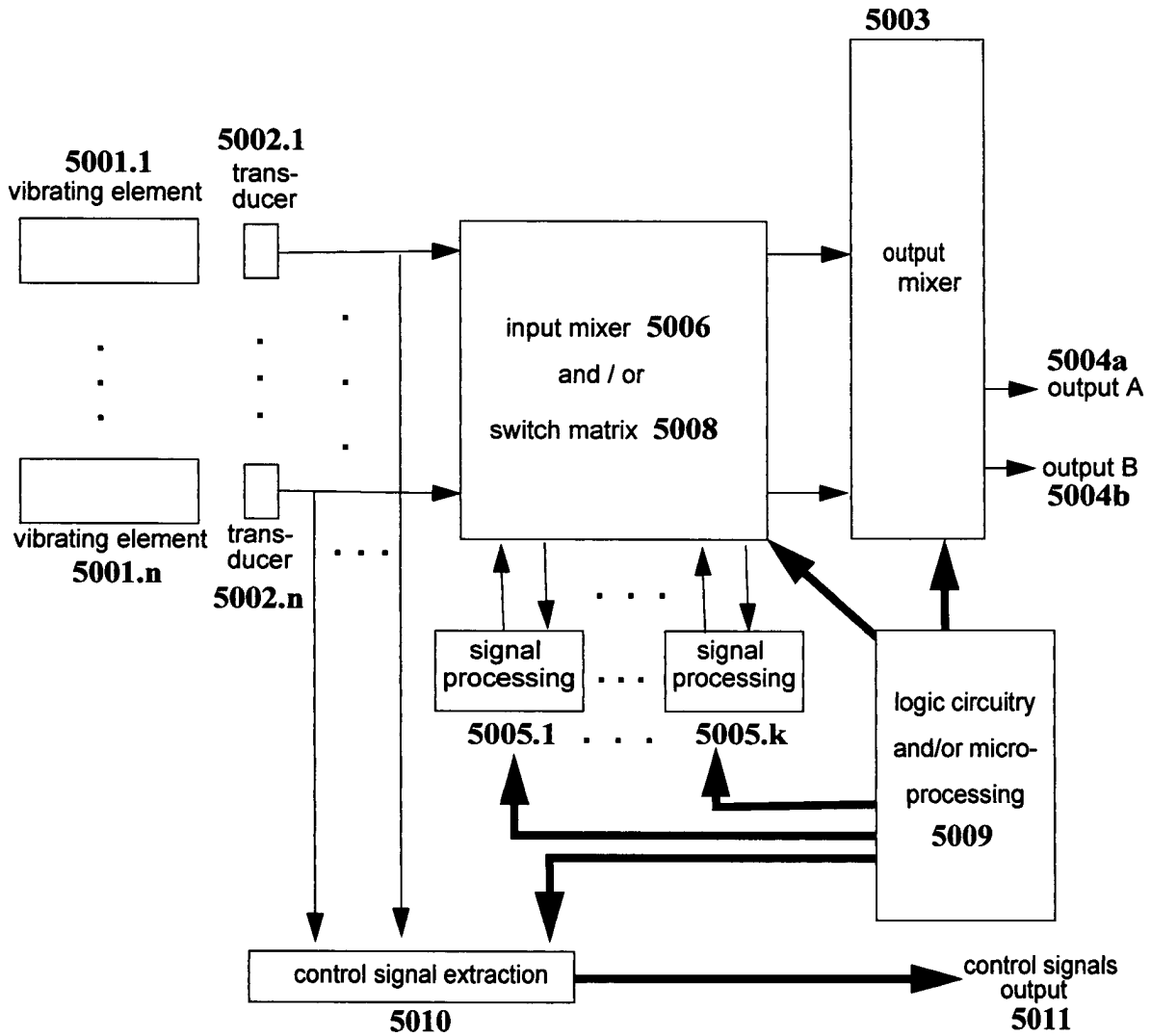


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

56 / 72

Figure 56



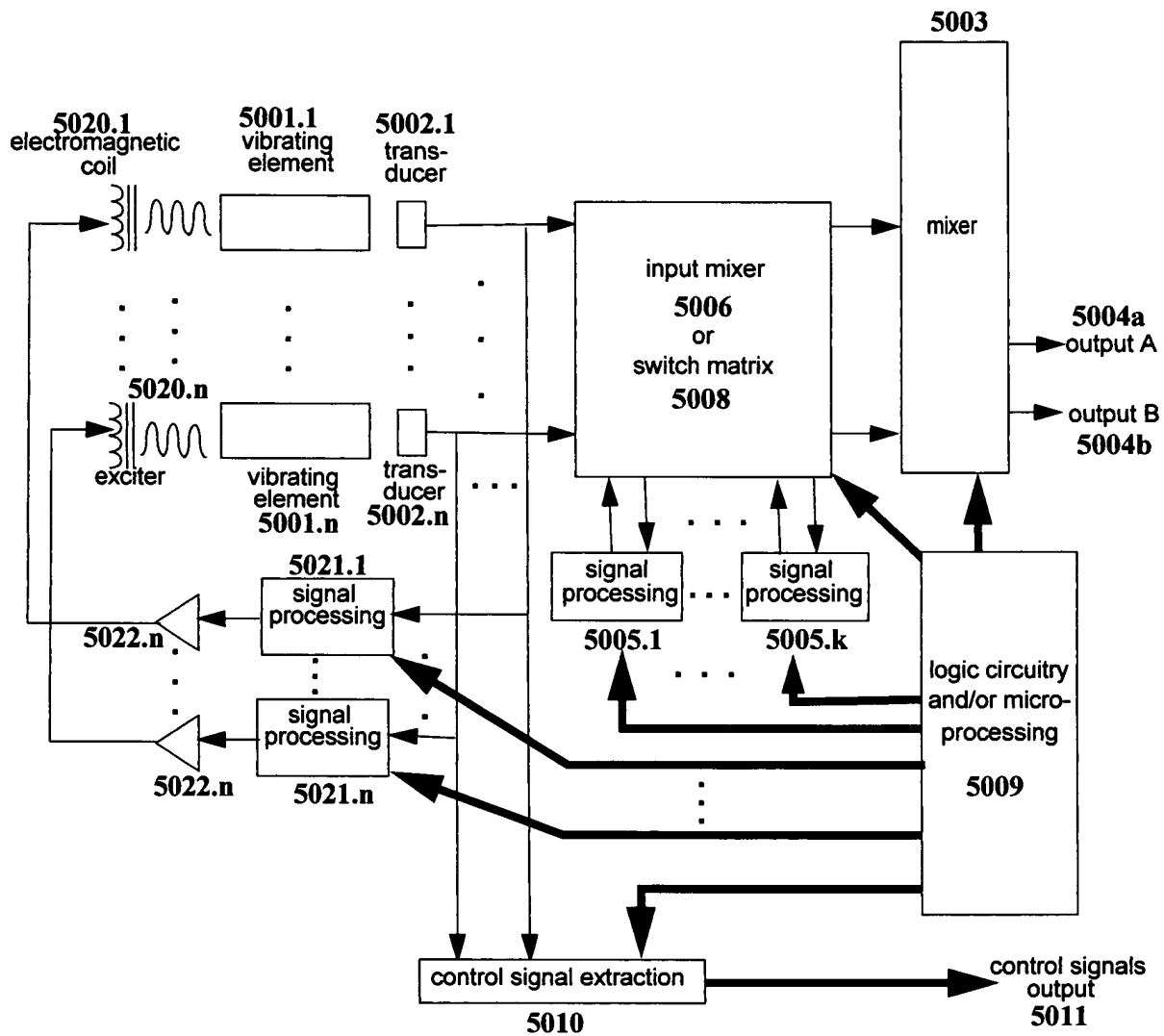
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

57 / 72

Figure 57



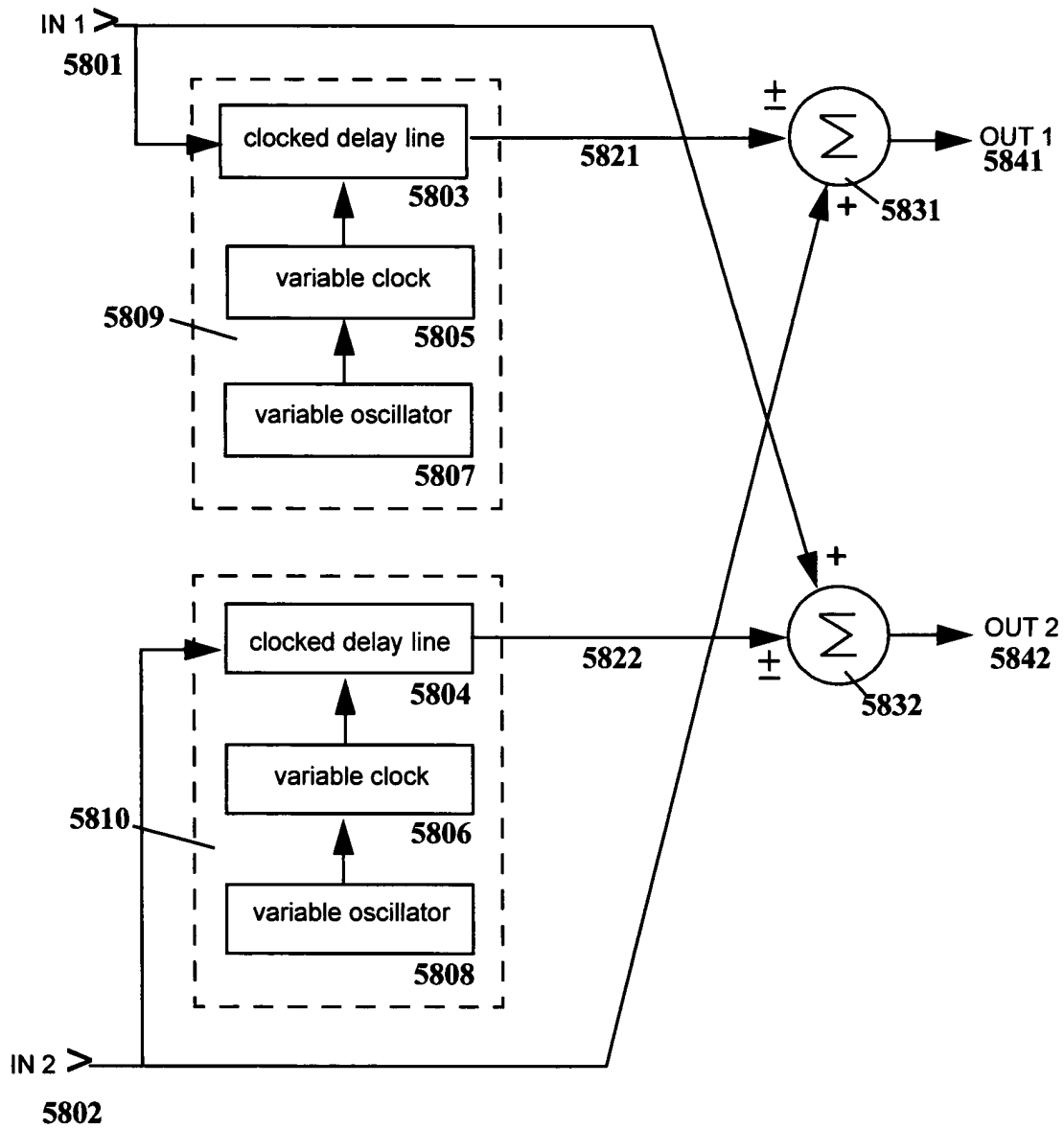
STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

58 / 72

Figure 58

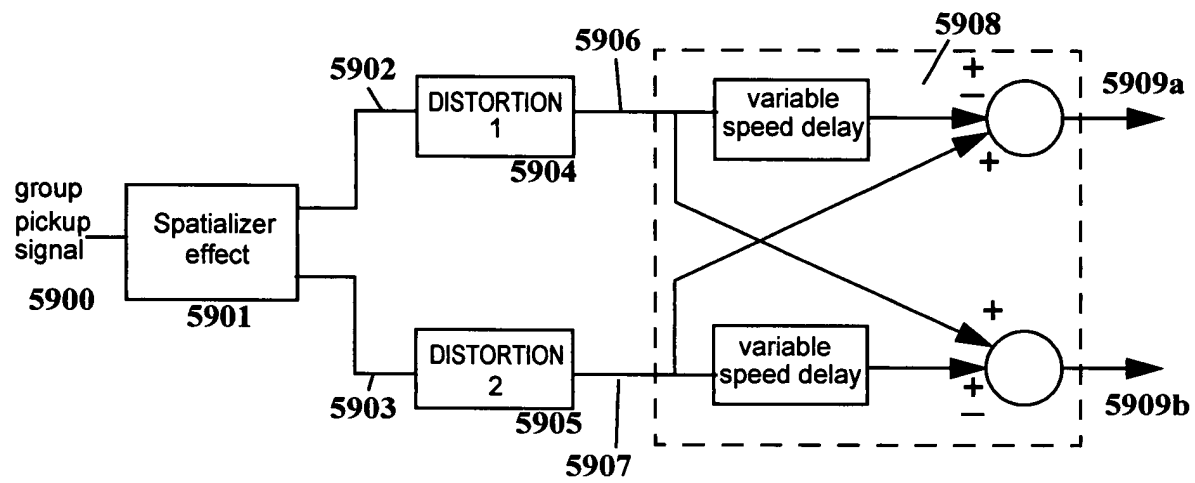


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 59

59 / 72



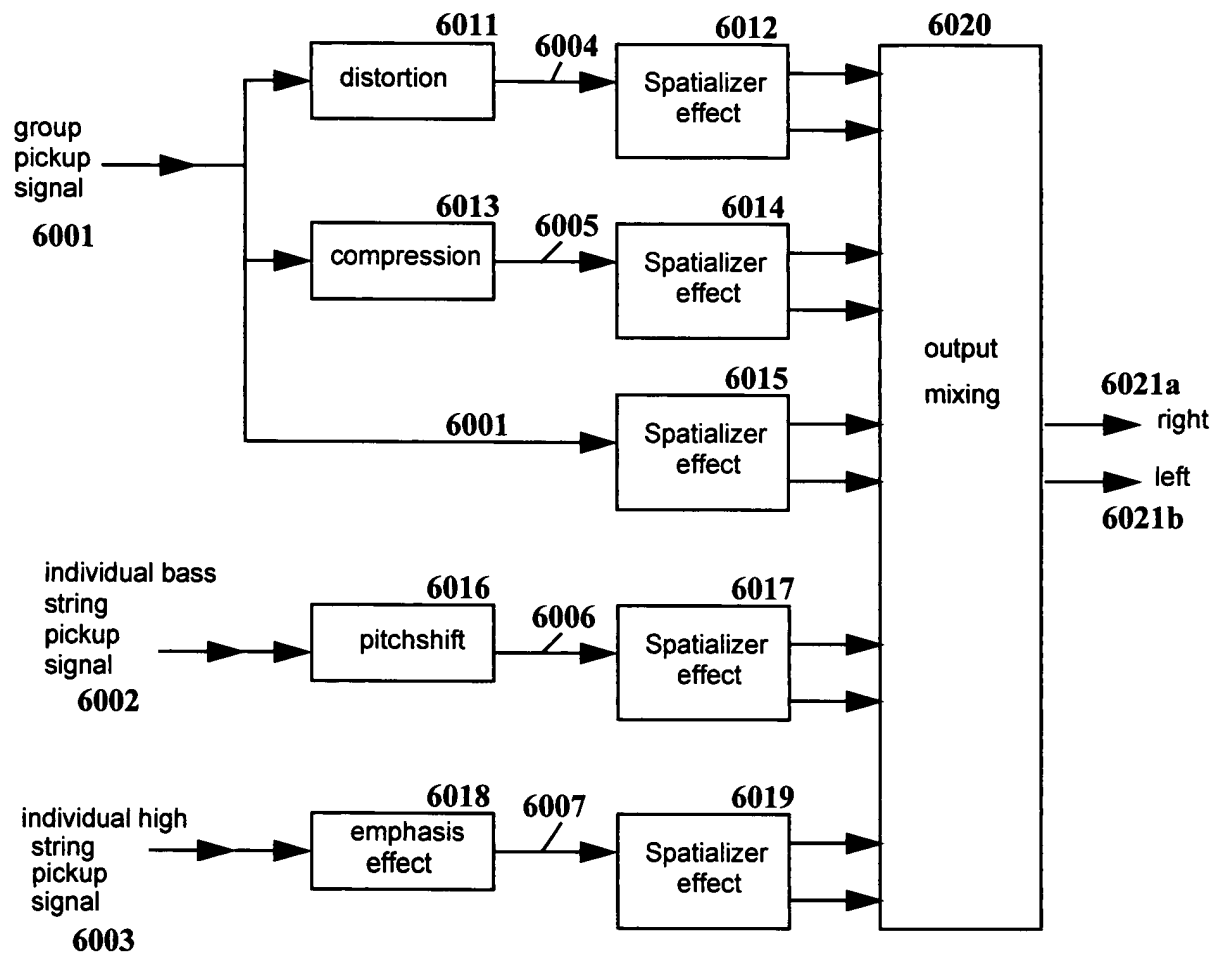
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 60

60 / 72



**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

61 / 72

Figure 61

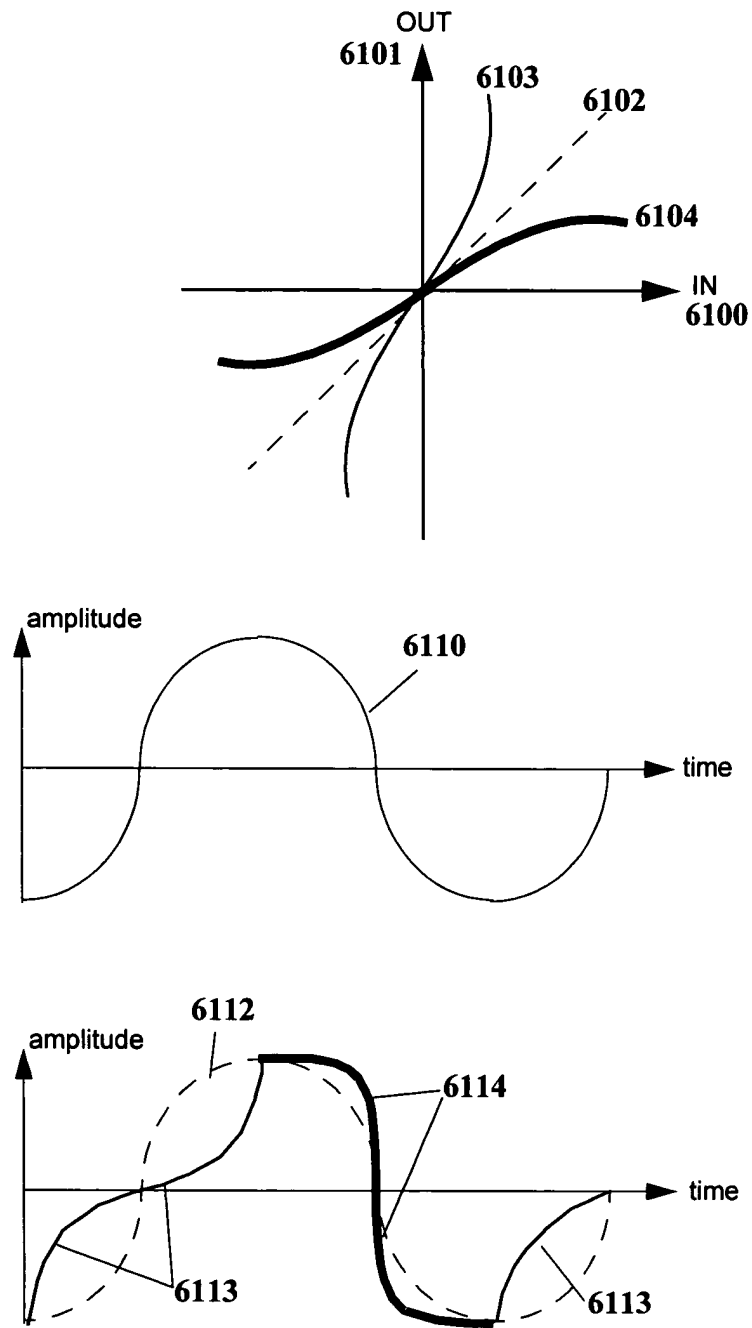
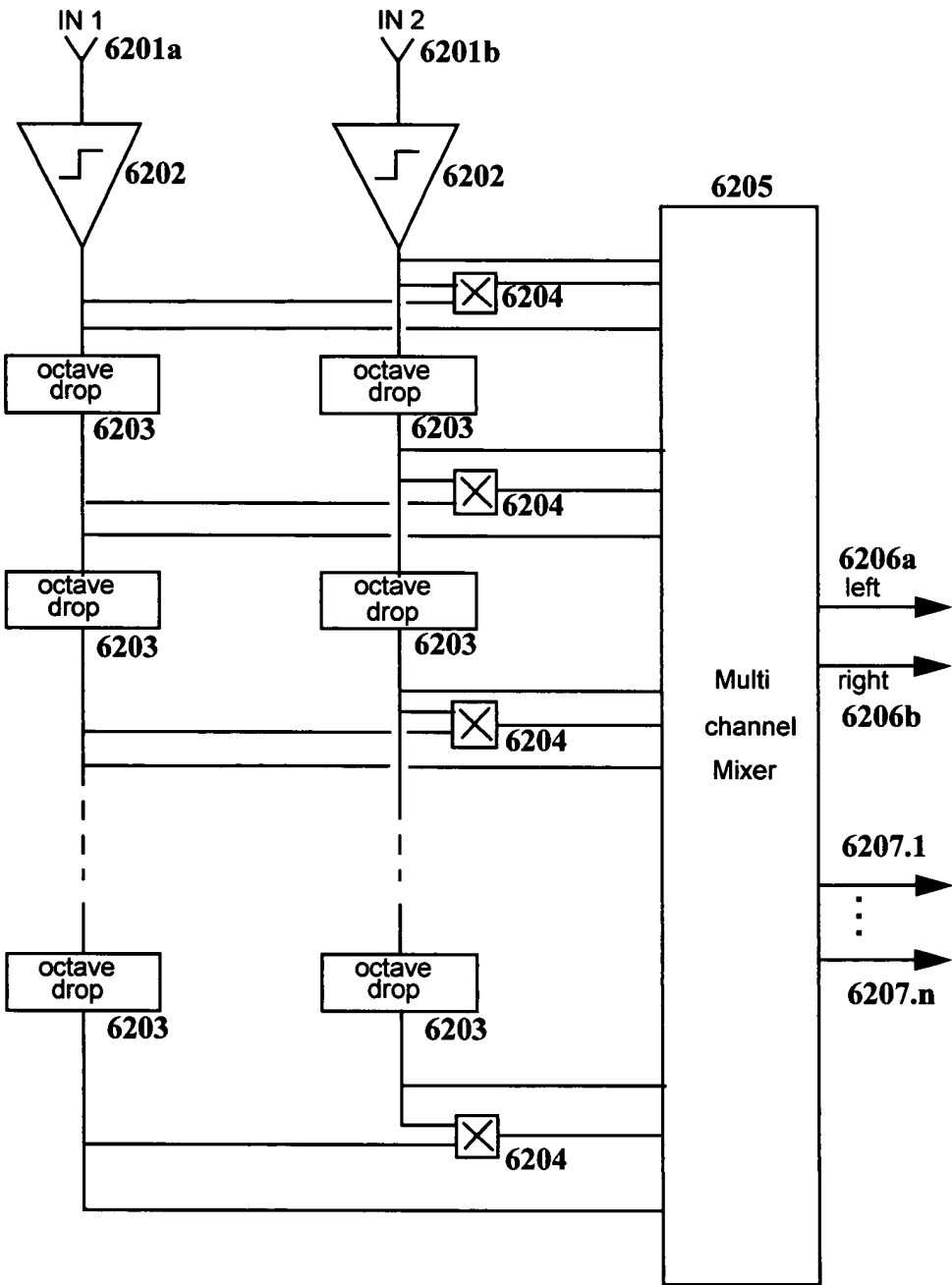


Figure 62

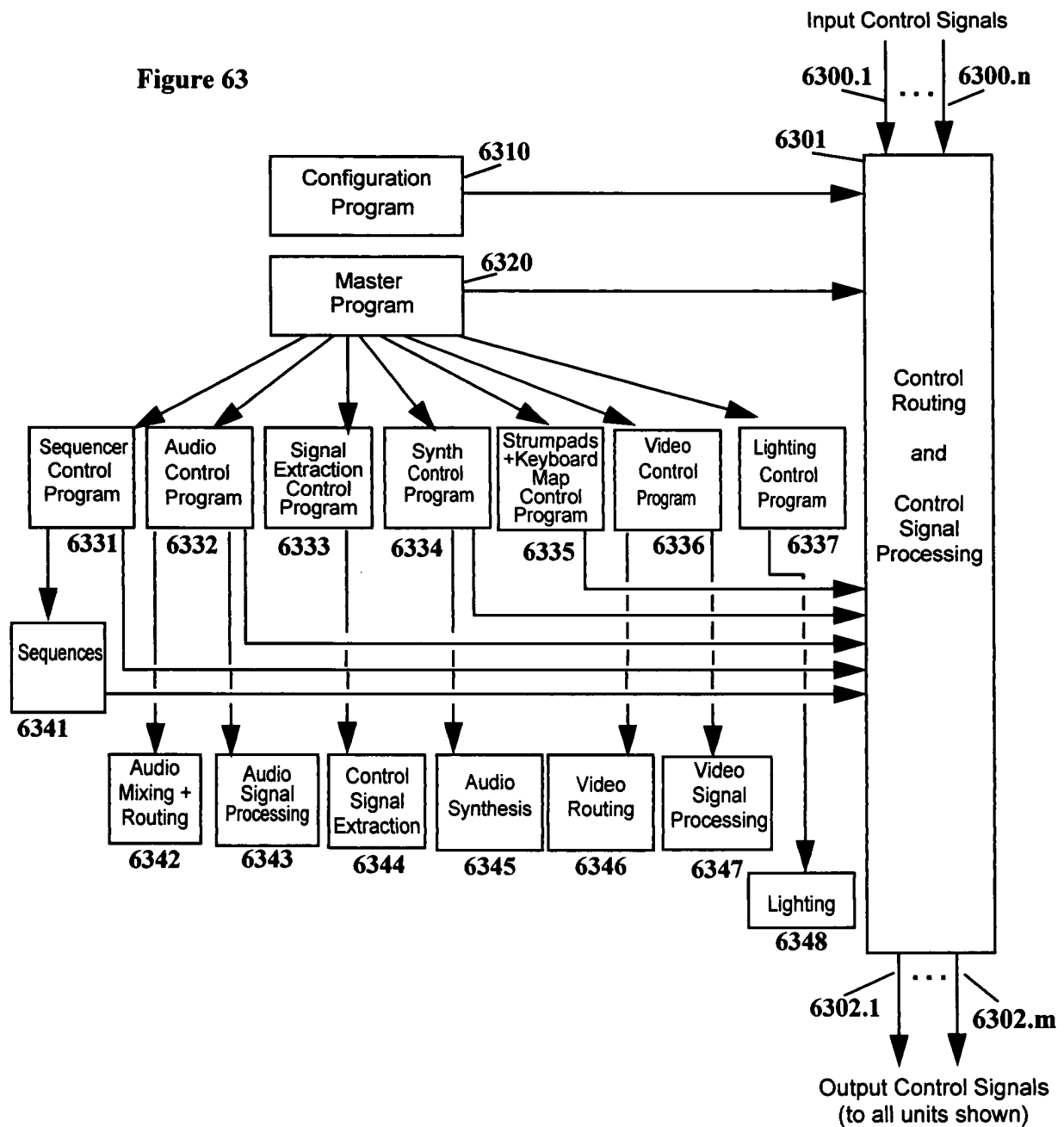


STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

63 / 72

Figure 63



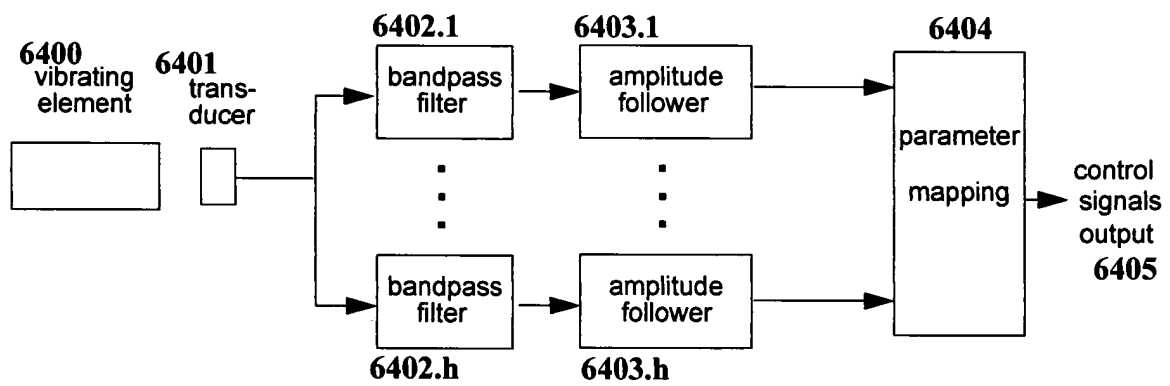
**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig

Docket No.: 2738-17

Figure 64

64 / 72

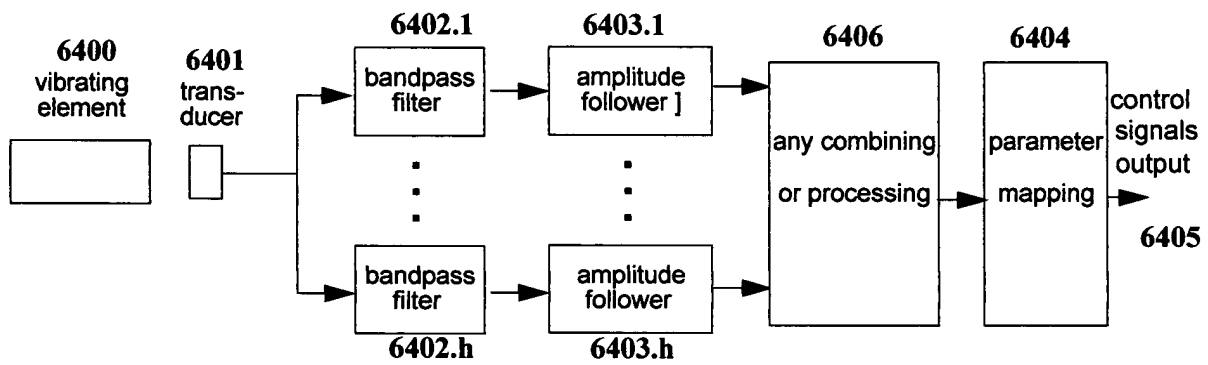


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

65 / 72

Figure 65

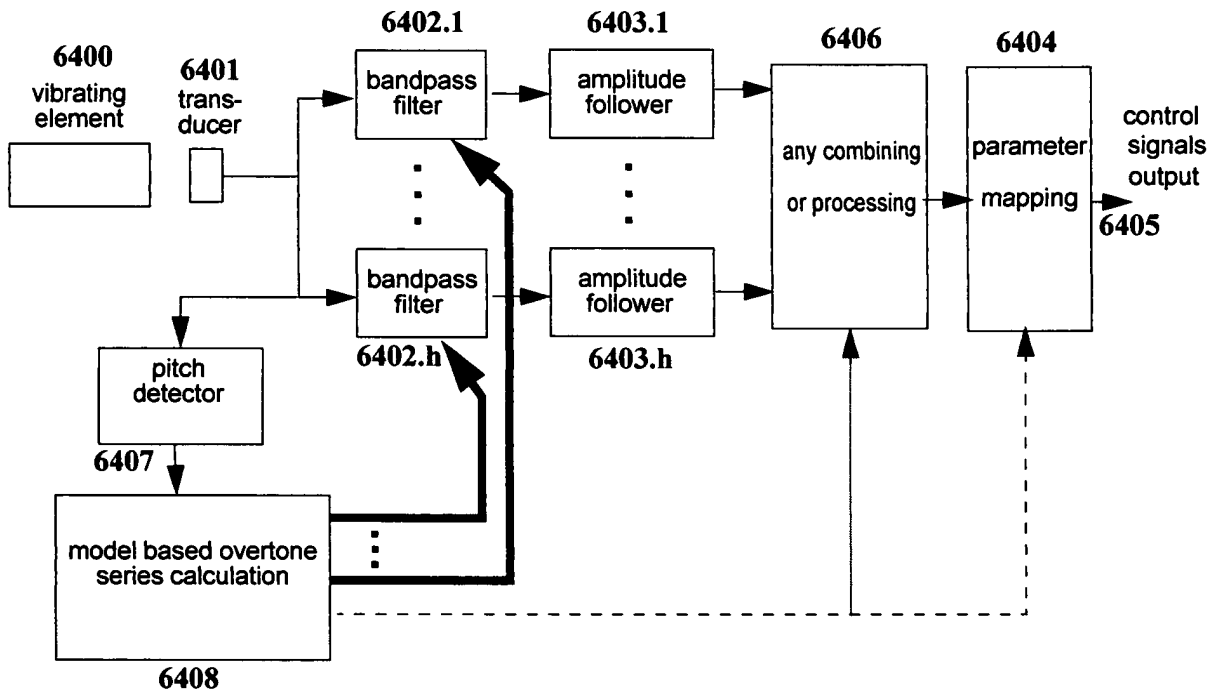


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

66 / 72

Figure 66

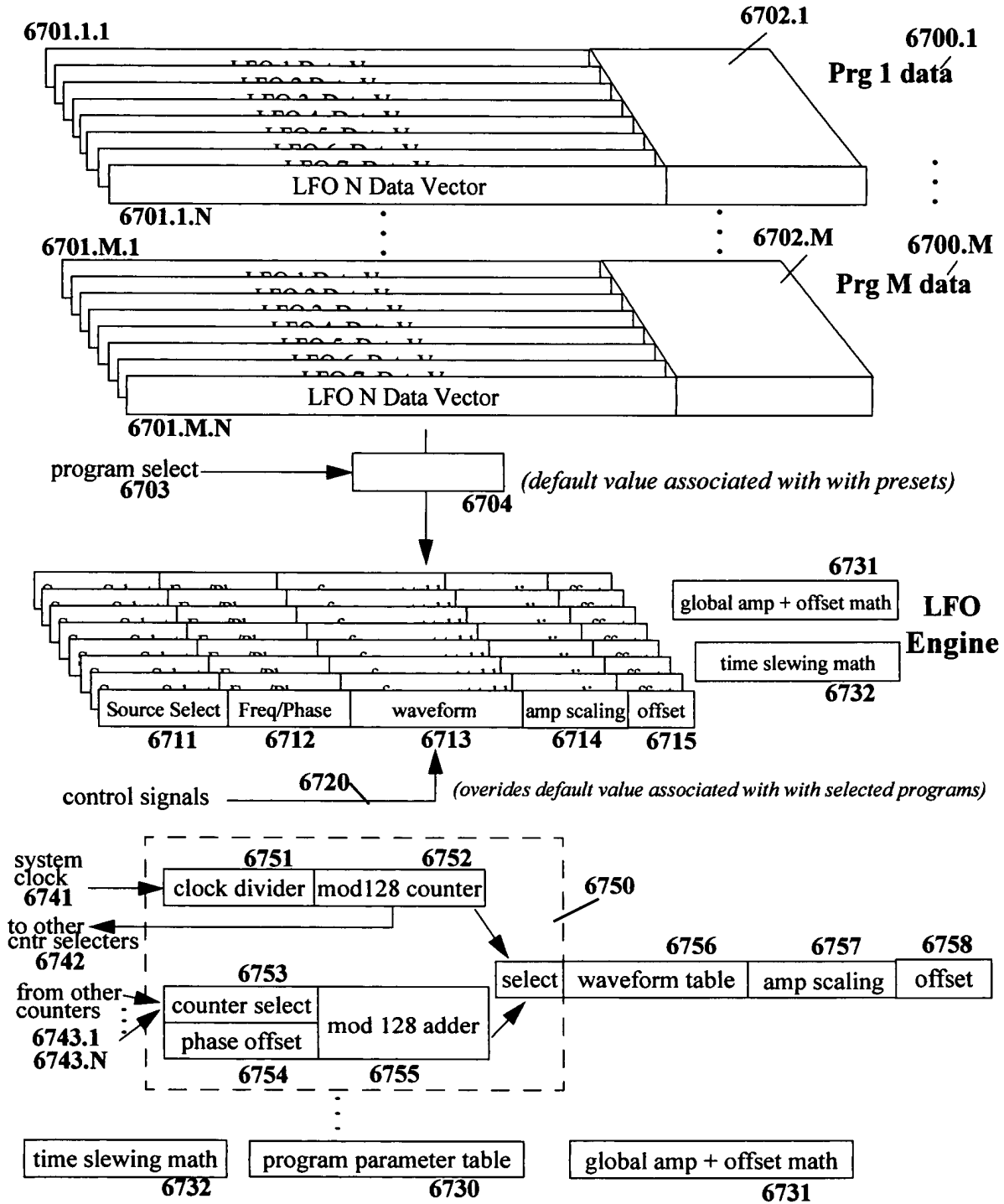


STRUMPAD AND STRING ARRAY PROCESSING FOR MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig
Docket No.: 2738-17

67 / 72

Figure 67

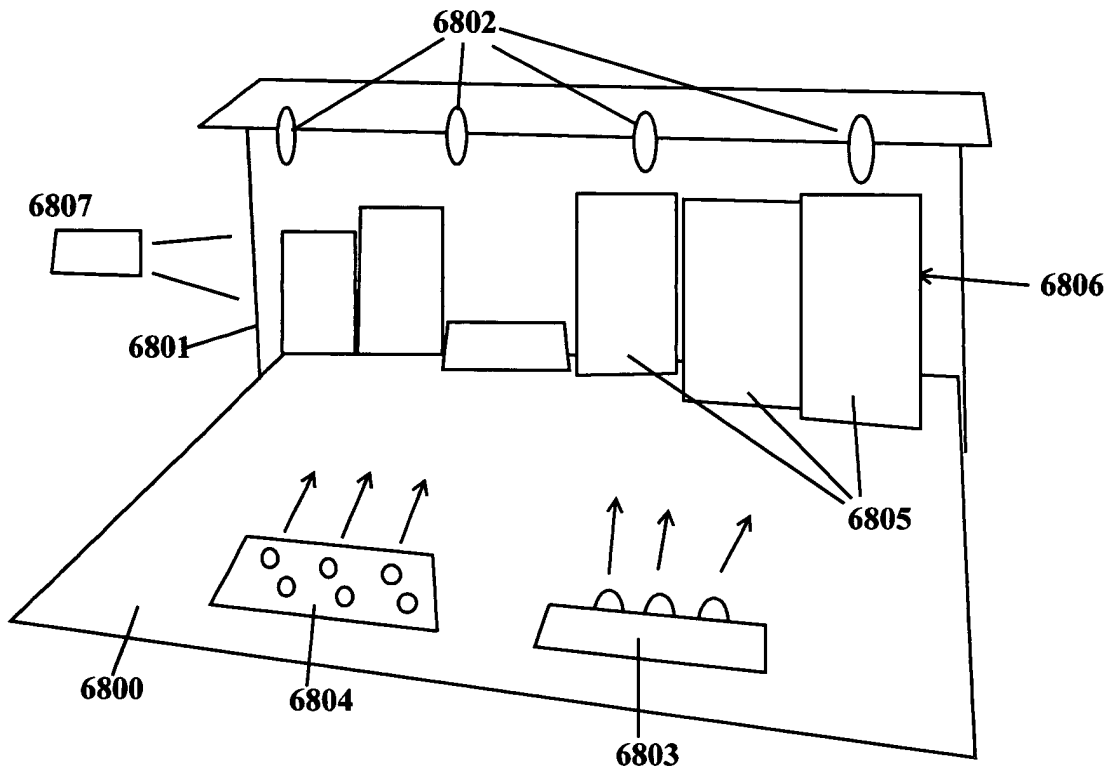


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 68

68 / 72

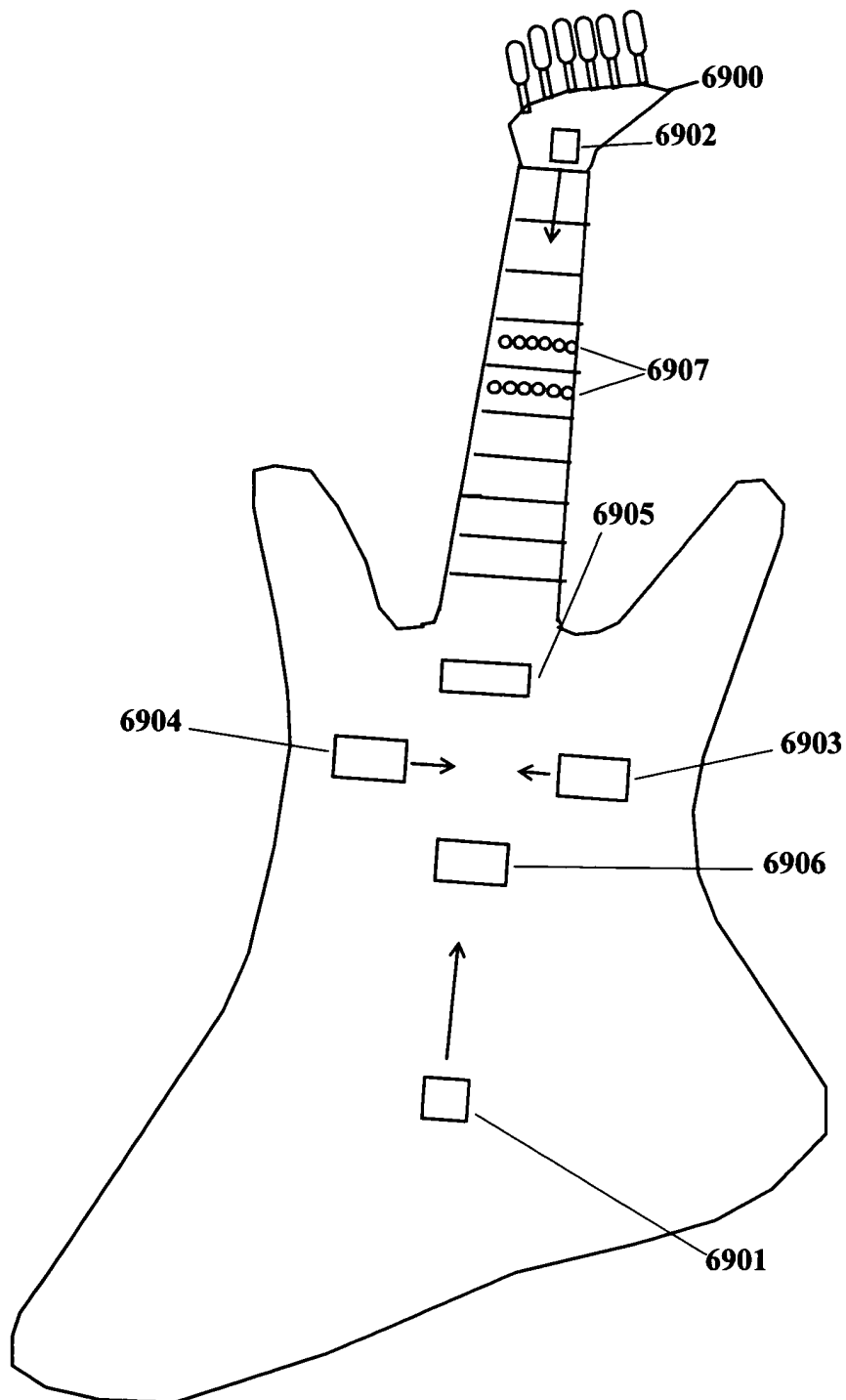


**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

69 / 72

Figure 69



STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS

Inventor: Lester F. Ludwig

Docket No.: 2738-17

70 / 72

Figure 70

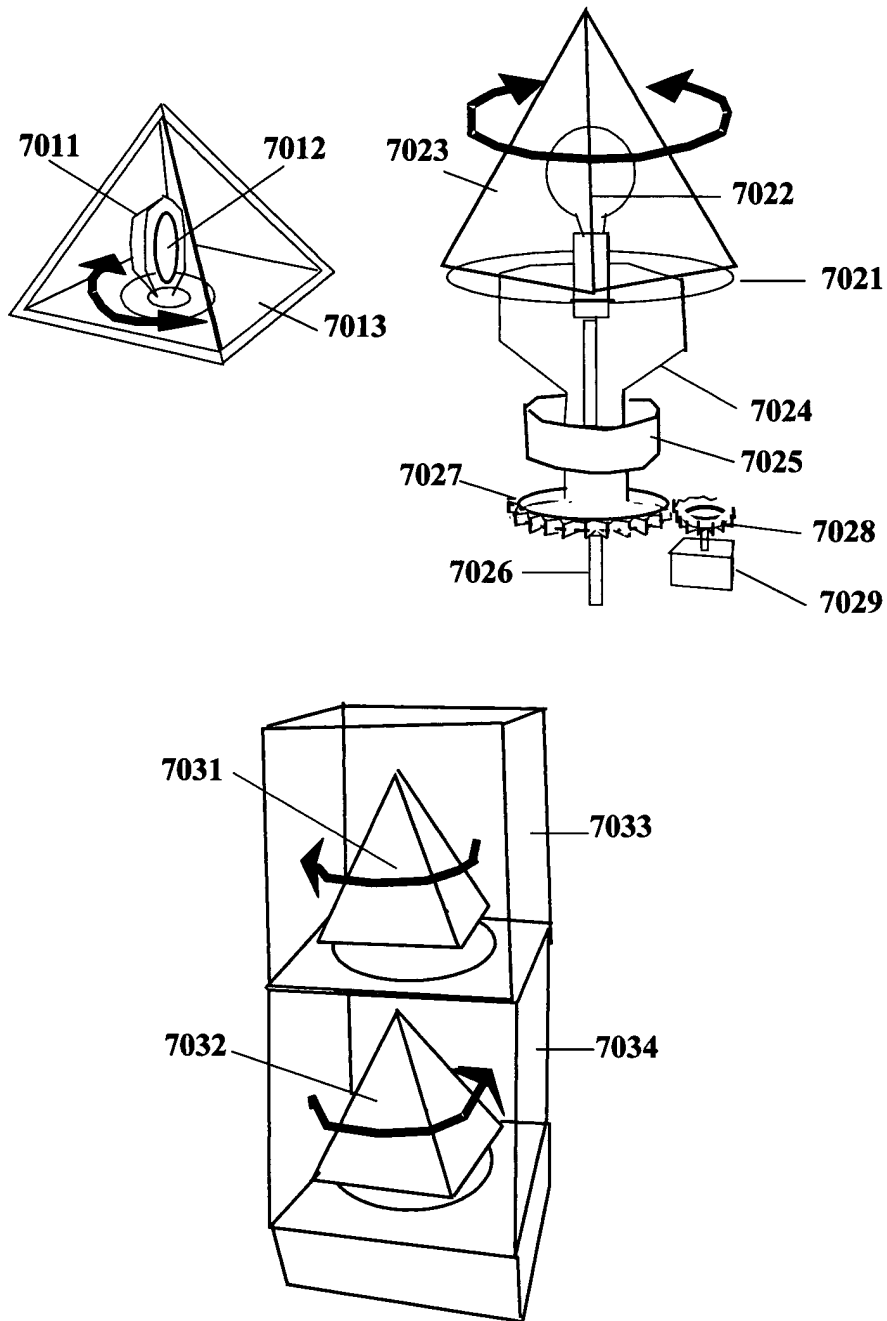
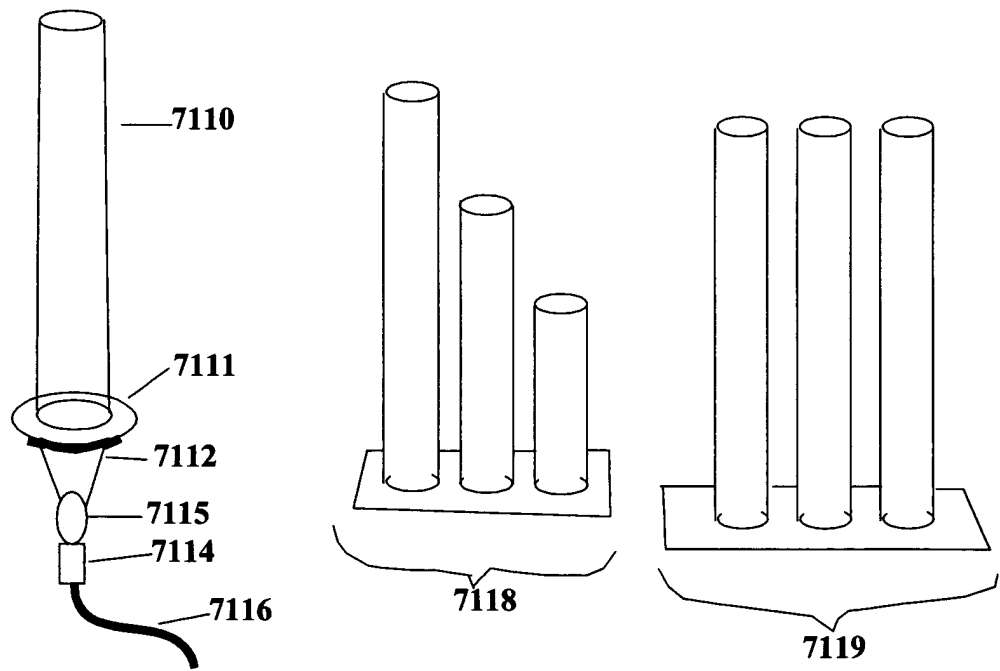
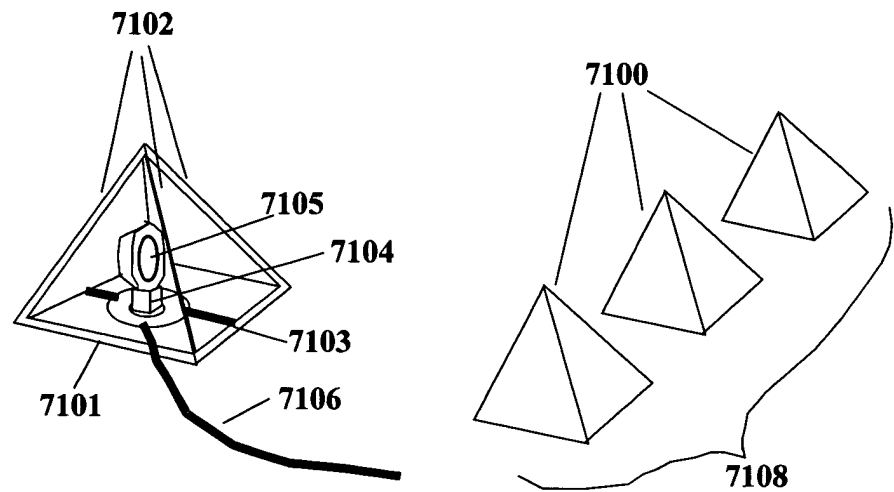


Figure 71

71 / 72



**STRUMPAD AND STRING ARRAY PROCESSING FOR
MUSICAL INSTRUMENTS**

Inventor: Lester F. Ludwig
Docket No.: 2738-17

Figure 72

72 / 72

